NEA/NSC/DOC(95)03/II
Volume II

HEU-MET-MIXED-012

ZPPR-20 PHASE D:
A CYLINDRICAL ASSEMBLY OF POLYETHYLENE-MODERATED U METAL REFLECTED BY BERYLLIUM OXIDE AND POLYETHYLENE

Evaluators

Richard M. Lell, Karl N. Grimm,
and Richard D. McKnight
Argonne National Laboratory

Robert W. Schaefer
Idaho National Laboratory

Internal Reviewers
Richard M. Lell, Richard D. McKnight,
and Karl N. Grimm

Independent Reviewer

Michael Zerkle
Bettis Atomic Power Laboratory

ZPPR-20 PHASE D:
A CYLINDRICAL ASSEMBLY OF POLYETHYLENE-MODERATED U METAL REFLECTED BY BERYLLIUM OXIDE AND POLYETHYLENE

IDENTIFICATION NUMBER: HEU-MET-MIXED-012 **SPECTRA**

KEY WORDS: acceptable, assembly, beryllium oxide reflected, critical experiment, cylinder, heterogeneous, homogeneous, metal, mixed, niobium, polyethylene, reflected, rhenium, uranium, ZPPR

1.0 DETAILED DESCRIPTION

1.1 Overview of Experiments

The Zero Power Physics Reactor (ZPPR) fast critical facility was built at the Argonne National Laboratory-West (ANL-W) site in Idaho in 1969 to obtain neutron physics information necessary for the design of fast breeder reactors. The ZPPR-20D Benchmark Assembly was part of a series of cores built in Assembly 20 (References 1 through 3) of the ZPPR facility to provide data for developing a nuclear power source for space applications (SP-100). The assemblies were beryllium oxide reflected and had core fuel compositions containing enriched uranium fuel, niobium and rhenium. ZPPR-20 Phase C (HEU-MET-FAST-075) was built as the reference flight configuration. Two other configurations, Phases D and E, simulated accident scenarios. Phase D modeled the water immersion scenario during a launch accident, and Phase E (SUB-HEU-MET-FAST-001) modeled the earth burial scenario during a launch accident. Two configurations were recorded for the simulated water immersion accident scenario (Phase D); the critical configuration, documented here, and the subcritical configuration (SUB-HEU-MET-MIXED-001). Experiments in Assembly 20 Phases 20A through 20F were performed in 1988. The reference water immersion configuration for the ZPPR-20D assembly was obtained as reactor loading 129 on October 7, 1988 with a fissile mass of 167.477 kg and a reactivity of -4.626 ± 0.044¢ (k≈0.9997).

The SP-100 core was to be constructed of highly enriched uranium nitride, niobium, rhenium and depleted lithium. The core design called for two enrichment zones with niobium-1% zirconium alloy fuel cladding and core structure. Rhenium was to be used as a fuel pin liner to provide shut down in the event of water immersion and flooding. The core coolant was to be depleted lithium metal (^{7}Li).

The core was to be surrounded radially with a niobium reactor vessel and bypass which would carry the lithium coolant to the forward inlet plenum. Immediately inside the reactor vessel was a rhenium baffle which would act as a neutron curtain in the event of water immersion. A fission gas plenum and coolant inlet plenum were located axially forward of the core.

Some material substitutions had to be made in mocking up the SP-100 design. The ZPPR-20 critical assemblies were fueled by 93% enriched uranium metal because uranium nitride, which was the

SP-100 fuel type, was not available. ZPPR Assembly 20D was designed to simulate a water immersion accident. The water was simulated by polyethylene (CH_2), which contains a similar amount of hydrogen and has a similar density.

A very accurate transformation to a simplified model is needed to make any of the ZPPR assemblies a practical criticality-safety benchmark. There is simply too much geometric detail in an exact model of a ZPPR assembly, particularly as complicated an assembly as ZPPR-20D. The transformation must reduce the detail to a practical level without masking any of the important features of the critical experiment. And it must do this without increasing the total uncertainty far beyond that of the original experiment. Such a transformation will be described in a later section. First, Assembly 20D was modeled in full detail—every plate, drawer, matrix tube, and air gap was modeled explicitly. Then the regionwise compositions and volumes from this model were converted to an RZ model.

ZPPR Assembly 20D has been determined to be an acceptable criticality-safety benchmark experiment.

1.2 Description of Experimental Configuration

1.2.1 The ZPPR Facility - At the heart of the ZPPR fast critical facility was a horizontal split-table type machine consisting of a large, cast-steel bed supporting two tables, one stationary and the other movable. An artist's rendering of the split-table machine, with components labeled, is shown in Figure 1. Figure 2 shows a photograph of the ZPPR matrix being loaded. Each table was 14 feet (4.3 m)[a] wide and 5 feet (1.5 m) long. During loading operations, the tables were separated by 5 feet (1.5 m). In operation, the movable table was driven against the stationary table by three electric motors with a nut and lead screw mechanism. "Mechanical operation of the matrix is that of a very large, high precision industrial machine. Up to 120 tons of reactor materials can be loaded into the matrix, causing a deflection of no more than 0.0040 in. The top/bottom and left/right alignment of the matrix faces is precise within a few millimeters, and is reproducible within a fraction of a millimeter."[b] Stainless steel square tubes, nominally 0.040 inches (1 mm) thick, 2.175 inches (55 mm) on a side (outside dimension) and 5 feet (1.5 m) long, were stacked horizontally on both tables to form a 77-row and 77-column square "honeycomb" matrix.[c] (To be precise, an 11x11 set of tubes is missing from each lower corner, as seen in Figure 2.) A *matrix position* is specified by three parameters: matrix half (1 for stationary or 2 for movable), row number (starting from the top with number 11) and column number (starting from the left, again with number 11, looking from the movable half towards the stationary half). For example, the central position in the stationary half according to this numbering convention is 149-49. The matrix tubes were supported by massive cast-iron, L-shaped structures known as the bed and knees. A plenum region, which included control-rod drives and experimental apparatus, existed beyond the matrix at the outer end of each

[a] Almost all of the references give dimensions in English units and some also give metric equivalents. We display the metric equivalent in parentheses when practical, as a courtesy to international readers.

[b] H. F. McFarlane, personal communication (1986).

[c] Imperfect alignment of the matrix bundles produces a very small gap at the interface when the tables are driven to the "closed" position.

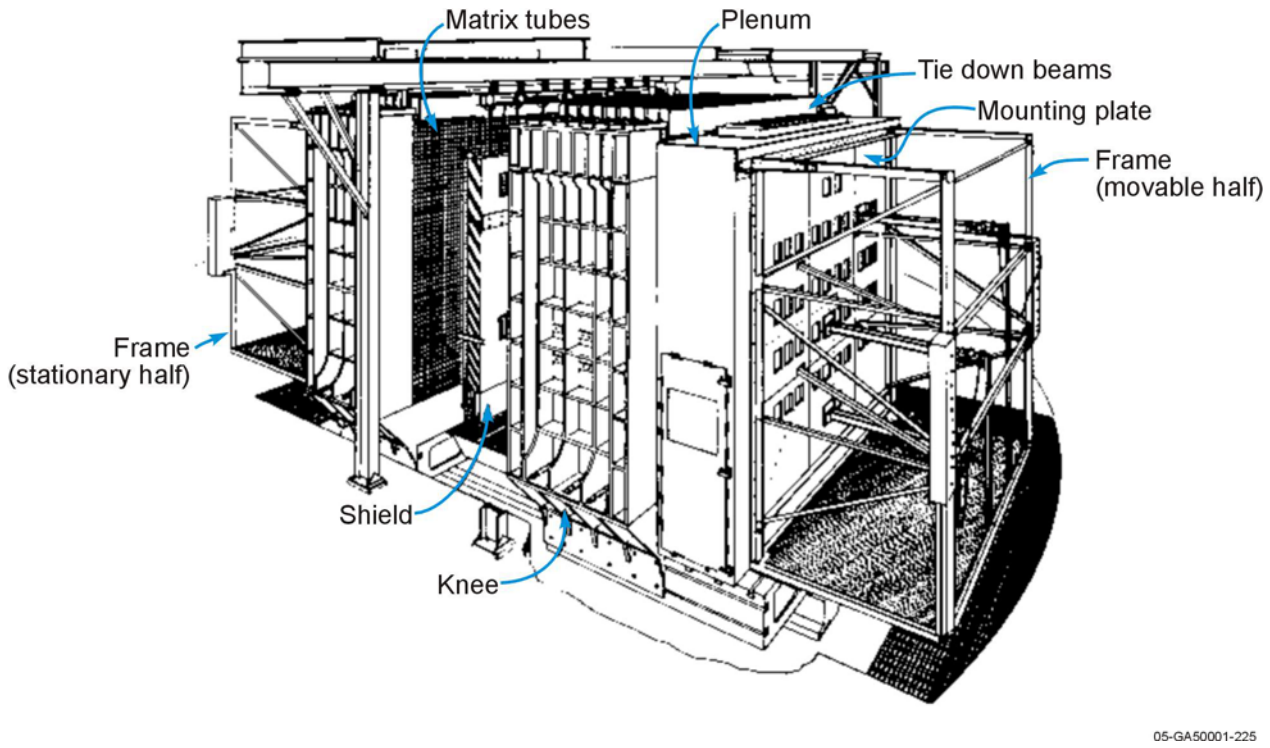


Figure 1. Artist's Rendering of the ZPPR Matrix Machine.

half. The plenum provided a flow path for cooling air into and out of the assembly matrix. The (horizontal) control rods projected through holes in a steel back plate, and the drive mechanisms were positioned on the outside of this back plate. The matrix machine was near the center of a large cylindrical cell (room) with a diameter of 50 feet (15 m) and height of 30 feet (9 m).

The desired average composition was achieved by loading the matrix with drawers containing rectangular plates (or, in some assemblies, with cylindrical rods) of different materials such as depleted, enriched, or natural uranium; stainless steel; sodium, etc. A specific plate-loading pattern in a drawer is called a *drawer master*. Some plates were bare material; others had a cladding or a protective coating. Figure 3 is an illustration of the plates inside a drawer forming a unit cell for a particular region in a particular loading. (A drawer with unusually short front and side walls is shown, in order to make the plate loading more visible.) The specification of which drawer master was in each matrix position is known as a *matrix loading map*.

It was usually the case that a given matrix position had two drawers, a *front drawer* and a *back drawer*. Correspondingly, there would be two matrix loading maps for each half, a front map and a back map. The ZPPR drawers themselves typically were made of approximately 0.03-inch-thick (0.8-mm) stainless steel, and their front, back, and side walls were nominally 2 inches (51 mm) tall.

Typically, two types of control rods were used in a ZPPR assembly to control assembly reactivity. One type was the *poison safety rod* (PSR), which contained a blade of boron powder or B_4C clad with stainless steel. There was one control rod of this type per matrix half in ZPPR Assembly 20D. The other type of control rod was the *dual-purpose* (DP) control rod, so-called because it was a

Figure 2. Manual Loading of the ZPPR Matrix.

drawer that contained a core unit cell but that could be driven in and out along a matrix tube to adjust reactivity. For ZPPR-20D there were two DP rods per matrix half. In addition to operational control rods, ZPPR-20D had *mockup control rods* (MCRs), which simulated a reactor component but had no ZPPR operational function. Seven such B_4C rods were simulated in a fully inserted position, which is the insertion under the postulated launch accident conditions.

Figure 3. Photograph of Typical Plate-Loaded ZPPR Drawer.

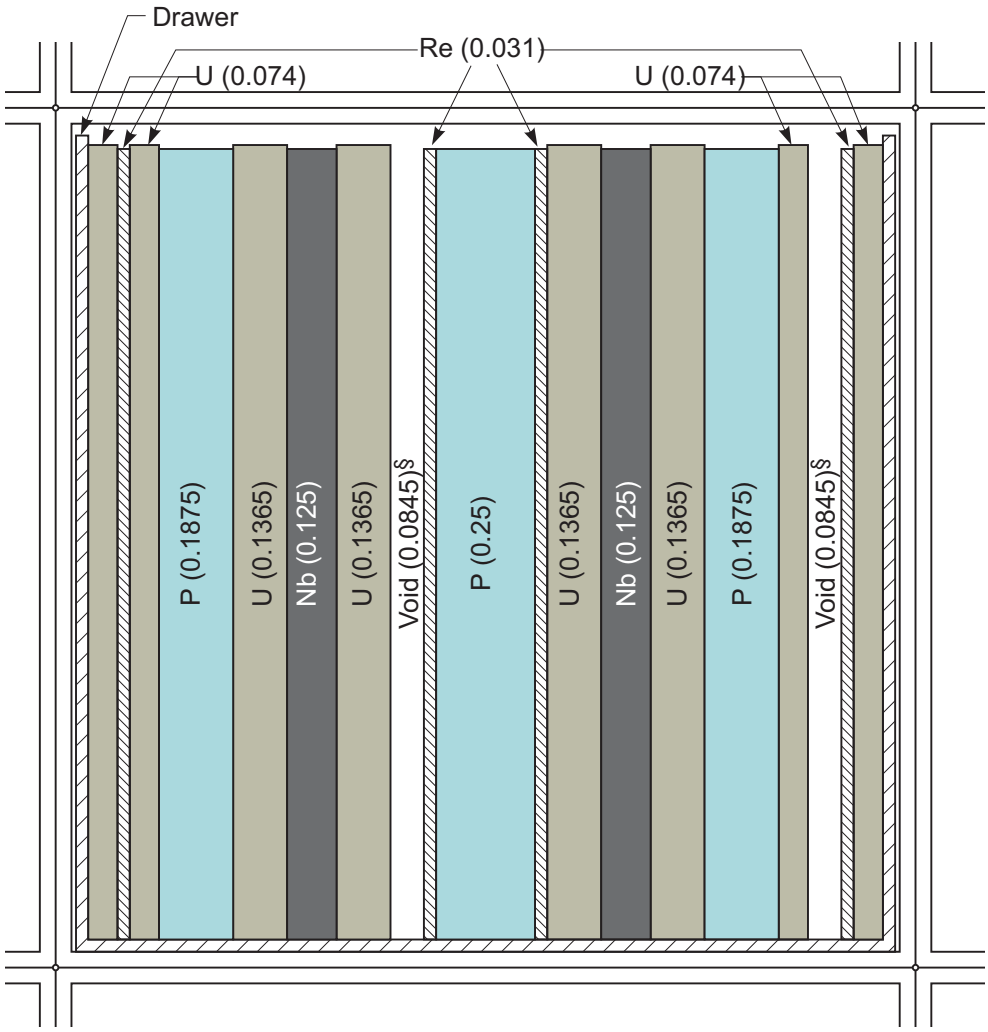
The full details of a ZPPR loading are not usually contained in published reports because of their complexity. Instead, it was usual to give details of a representative drawer master for each region, the matrix loading map in terms of the representative drawer masters, and the average composition for each material region. However, the detailed description was archived in loading records—both electronic and paper.

1.2.2 The Matrix and Drawer Loading Data –An idea of what the loadings were like at the plate level is given in Figure 4. This figure is an X-Y slice through a matrix position in the ZPPR-20D core region, showing the stainless steel matrix tube, stainless steel drawer, and plates made of uranium, rhenium, polyethylene and niobium. These are the materials that comprise the core. The core had a two-drawer unit cell and this is one of them. The other had the same materials but had less polyethylene (two plate columns) and more niobium (four plate columns). The small gap between the top of the plates and the bottom of the upper wall of the matrix tube served as a flow path for cooling air.

Figure 5 depicts this same drawer master in an X-Z view, that is, looking down at the top of the drawer, and shows the columns of the plates. The drawer itself is not shown. The origin of the drawer master coordinate system is at the front lower left corner of the space inside the drawer, which is near the upper left corner of the figure. The Z axis is along the drawer length and goes from zero to 14 inches.[a] The Y axis is transverse to the page, pointing towards the reader, and the range encompassing the plate loading is from zero to two inches. The view in Figure 4 may be recognized as an X-Y slice for Z values in the range 0 to 8 inches.

The drawer master loaded into each matrix location of the stationary half (Half 1 in ZPPR terminology) and the movable half (Half 2) of ZPPR-20D Loading 129 is specified in Tables 1 and 2, respectively. A unique one-character symbol is used there to represent each drawer master. An empty matrix position is identified by the symbol "#". (There are an additional 8332 empty matrix tubes beyond the row-column ranges shown in these two figures.) Table 3 gives the identification symbol used in Tables 1 and 2 (Column 1), the ZPPR drawer master number (Column 2), the principal reactor region(s) mocked up by this master (Column 3), the length and type of drawer holding the plate materials (Columns 4 and 5), and the number of occurrences of this drawer master in ZPRR-20D Loading 129 (Column 6). Any operational function of the drawer master, such as containing thermocouples to indicate fuel temperature, is indicated in parentheses in Column 3. In cases where no type is indicated in Columns 4 and 5, the plate material was loaded directly into the matrix tube.

[a] Note that the coordinate convention for ZPPR assemblies is unusual in that the Z direction is horizontal, not vertical.



Dimensions in inches U = Uranium P = Polyethylene
Re = Rhenium Nb = Niobium

05-GA50001-102

§ Voids actually were distributed, not collected as shown here - see text.

Figure 4. Cross Section of Core Drawer Master 0101, Showing Matrix and Plate-loaded Drawer.

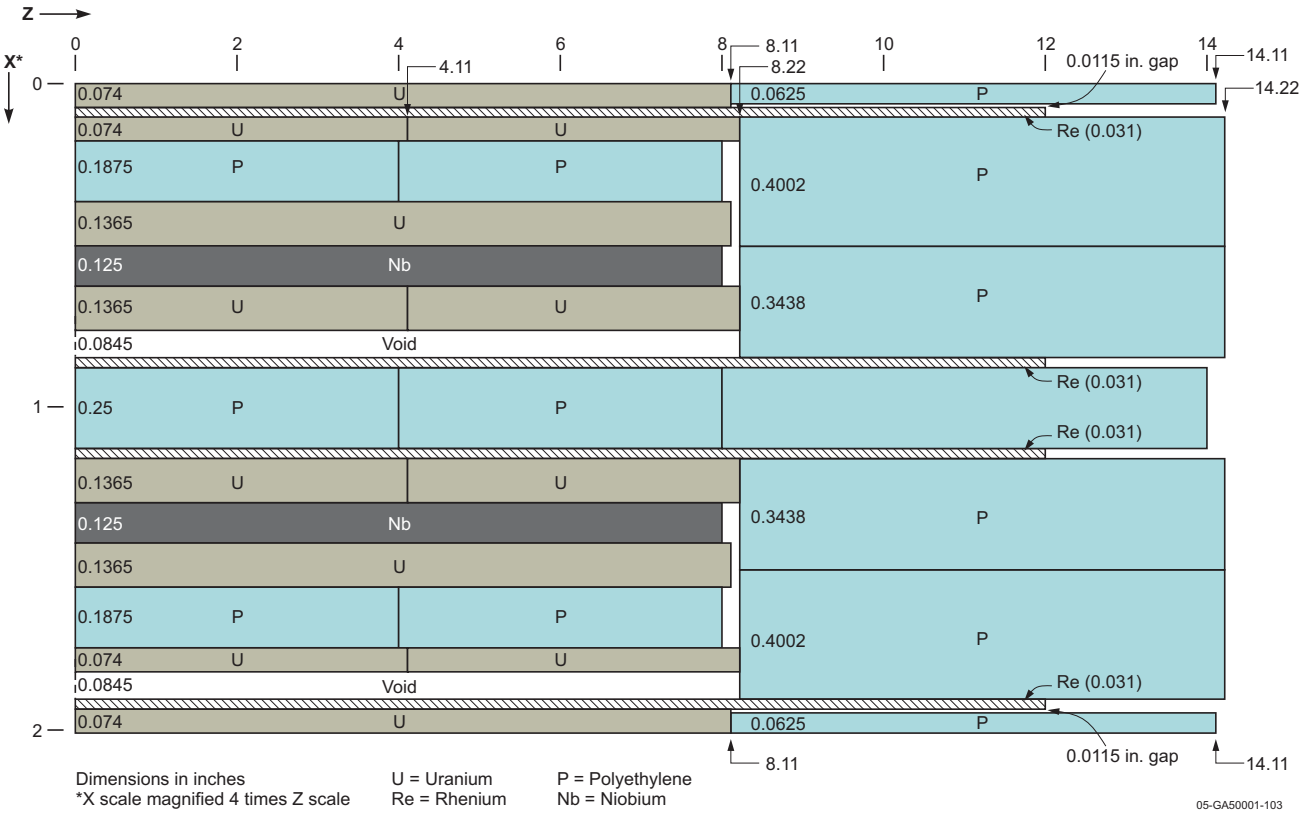


Figure 5. Drawer Master Diagram for Core Drawer Master 0101.

The large number of drawer masters resulted primarily from the fact that the characteristic dimensions of SP-100 reactor regions were not large compared to the 2 x 2 inch (55 x 55 mm) X-Y dimensions of a drawer master. SP-100 region boundaries often fell within a drawer rather than at a drawer boundary. Accordingly, parts of multiple SP-100 regions often were mocked up within a single drawer master. This can be seen in the third column of Table 3. To approximate the cylindrical SP-100 regions, it was necessary to have mirror image and 90°-rotated variations of multi-region drawers. Consequently, not only are there many drawer masters, the masters are extraordinarily complex.

Table 1. ZPPR-20D Loading 129 Half 1 Front Drawer Matrix Map.

→ X
↓
Y

COLUMN

	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
132	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
133	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
134	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
135	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
136	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
137	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
138	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
139	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
140	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
141	#	#	#	#	#	#	#	#	#	#	#	#	#	v	v	v	v	v	v	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
142	#	#	#	#	#	#	#	#	#	#	#	#	v	v	v	v	u	u	u	u	u	v	v	v	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
143	#	#	#	#	#	#	#	#	#	#	v	v	v	u	u	u	u	u	e	u	u	u	u	u	v	v	v	#	#	#	#	#	#	#	#	#	#	#	#
144	#	#	#	#	#	#	#	#	#	#	v	u	u	u	u	u	u	e	e	e	e	e	u	u	u	u	u	v	#	#	#	#	#	#	#	#	#	#	#
145	#	#	#	#	#	#	#	#	#	v	v	u	u	u	e	e	e	e	e	e	e	e	e	u	u	u	v	v	#	#	#	#	#	#	#	#	#	#	#
146	#	#	#	#	#	#	#	#	#	v	u	u	u	e	e	e	e	W	a	W	e	e	e	e	u	u	u	v	#	#	#	#	#	#	#	#	#	#	#
147	#	#	#	#	#	#	#	#	#	v	u	u	e	e	e	W	P	P	P	P	P	W	e	e	e	u	u	v	#	#	#	#	#	#	#	#	#	#	#
148	#	#	#	#	#	#	#	#	#	v	v	u	u	e	e	V	P	S	H	m	H	S	P	U	e	e	u	u	v	v	#	#	#	#	#	#	#	#	#
149	#	#	#	#	#	#	#	#	#	v	u	u	e	e	e	P	R	C	B	t	B	h	Q	P	e	e	e	u	u	v	#	#	#	#	#	#	#	#	#
150	#	#	#	#	#	#	#	#	#	v	u	u	e	e	V	P	j	K	h	B	A	J	i	P	U	e	e	u	u	v	#	#	#	#	#	#	#	#	#
151	#	#	#	#	#	#	#	#	#	v	u	e	e	e	Z	P	G	r	B	N	p	D	F	P	Y	e	e	e	u	v	#	#	#	#	#	#	#	#	#
152	#	#	#	#	#	#	#	#	#	v	u	u	e	e	V	P	l	K	A	B	A	f	k	P	U	e	e	u	u	v	#	#	#	#	#	#	#	#	#
153	#	#	#	#	#	#	#	#	#	v	u	u	e	e	e	P	d	h	B	t	B	C	Q	P	e	e	e	u	u	v	#	#	#	#	#	#	#	#	#
154	#	#	#	#	#	#	#	#	#	v	v	u	u	e	e	V	P	T	I	n	I	T	P	U	e	e	u	u	v	v	#	#	#	#	#	#	#	#	#
155	#	#	#	#	#	#	#	#	#	v	u	u	e	e	e	X	P	P	P	P	P	X	e	e	e	u	u	v	#	#	#	#	#	#	#	#	#	#	#
156	#	#	#	#	#	#	#	#	#	v	u	u	u	e	e	e	e	X	b	X	e	e	e	e	u	u	u	v	#	#	#	#	#	#	#	#	#	#	#
157	#	#	#	#	#	#	#	#	#	v	v	u	u	u	e	e	e	e	e	e	e	e	e	e	u	u	u	v	v	#	#	#	#	#	#	#	#	#	#
158	#	#	#	#	#	#	#	#	#	#	v	u	u	u	u	u	e	e	e	e	e	u	u	u	u	u	v	#	#	#	#	#	#	#	#	#	#	#	#
159	#	#	#	#	#	#	#	#	#	#	v	v	v	u	u	u	u	u	e	u	u	u	u	u	v	v	v	#	#	#	#	#	#	#	#	#	#	#	#
160	#	#	#	#	#	#	#	#	#	#	#	#	v	v	v	v	u	u	u	u	u	v	v	v	v	#	#	#	#	#	#	#	#	#	#	#	#	#	#
161	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	v	v	v	v	v	v	v	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
162	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
163	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
164	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
165	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
166	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
167	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
168	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
169	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
170	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#

Table 2. ZPPR-20D Loading 129 Half 2 Front Drawer Matrix Map.

→ X
↓
Y

COLUMN

ROW	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
232	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
233	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
234	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
235	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
236	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
237	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
238	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
239	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
240	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
241	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	y	y	y	y	y	y	y	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
242	#	#	#	#	#	#	#	#	#	#	#	#	#	y	y	y	y	x	x	x	x	x	y	y	y	y	#	#	#	#	#	#	#	#	#	#	#	#	#
243	#	#	#	#	#	#	#	#	#	#	#	y	y	y	x	x	x	x	x	e	x	x	x	x	x	y	y	y	#	#	#	#	#	#	#	#	#	#	#
244	#	#	#	#	#	#	#	#	#	#	#	y	x	x	x	x	x	e	e	e	e	e	x	x	x	x	x	y	#	#	#	#	#	#	#	#	#	#	#
245	#	#	#	#	#	#	#	#	#	#	y	y	x	x	x	e	e	e	e	e	e	e	e	e	x	x	x	y	y	#	#	#	#	#	#	#	#	#	#
246	#	#	#	#	#	#	#	#	#	#	y	x	x	x	e	e	e	e	W	a	W	e	e	e	e	x	x	x	y	#	#	#	#	#	#	#	#	#	#
247	#	#	#	#	#	#	#	#	#	#	y	x	x	e	e	e	W	P	P	P	P	P	W	e	e	e	x	x	y	#	#	#	#	#	#	#	#	#	#
248	#	#	#	#	#	#	#	#	#	y	y	x	x	e	e	U	P	S	H	m	H	S	P	V	e	e	x	x	y	y	#	#	#	#	#	#	#	#	#
249	#	#	#	#	#	#	#	#	#	y	x	x	e	e	e	P	Q	C	B	z	B	h	R	P	e	e	e	x	x	y	#	#	#	#	#	#	#	#	#
R 250	#	#	#	#	#	#	#	#	#	y	x	x	e	e	U	P	k	M	h	B	A	L	l	P	V	e	e	x	x	y	#	#	#	#	#	#	#	#	#
O 251	#	#	#	#	#	#	#	#	#	y	x	e	e	e	Y	P	F	s	+	O	q	E	G	P	Z	e	e	e	x	y	#	#	#	#	#	#	#	#	#
W 252	#	#	#	#	#	#	#	#	#	y	x	x	e	e	U	P	i	M	A	B	A	g	j	P	V	e	e	x	x	y	#	#	#	#	#	#	#	#	#
253	#	#	#	#	#	#	#	#	#	y	x	x	e	e	e	P	c	h	B	z	B	C	R	P	e	e	e	x	x	y	#	#	#	#	#	#	#	#	#
254	#	#	#	#	#	#	#	#	#	y	y	x	x	e	e	U	P	T	I	o	I	T	P	V	e	e	x	x	y	y	#	#	#	#	#	#	#	#	#
255	#	#	#	#	#	#	#	#	#	#	y	x	x	e	e	e	X	P	P	P	P	P	X	e	e	e	x	x	y	#	#	#	#	#	#	#	#	#	#
256	#	#	#	#	#	#	#	#	#	#	y	x	x	x	e	e	e	e	X	b	X	e	e	e	e	x	x	x	y	#	#	#	#	#	#	#	#	#	#
257	#	#	#	#	#	#	#	#	#	#	y	y	x	x	x	e	e	e	e	e	e	e	e	e	x	x	x	y	y	#	#	#	#	#	#	#	#	#	#
258	#	#	#	#	#	#	#	#	#	#	#	y	x	x	x	x	x	e	e	e	e	e	x	x	x	x	x	y	#	#	#	#	#	#	#	#	#	#	#
259	#	#	#	#	#	#	#	#	#	#	#	y	y	y	x	x	x	x	x	e	x	x	x	x	x	y	y	y	#	#	#	#	#	#	#	#	#	#	#
260	#	#	#	#	#	#	#	#	#	#	#	#	#	y	y	y	y	x	x	x	x	x	y	y	y	y	#	#	#	#	#	#	#	#	#	#	#	#	#
261	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	y	y	y	y	y	y	y	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
262	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
263	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
264	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
265	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
266	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
267	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
268	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
269	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
270	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#

Table 3. Drawer Identification and Type Data.

Symbol	Drawer Master Number	Role of Drawer	Length (inches)	Type of Drawer	Number in Loading 129
A	0101	Core	23.252	SST	6
B	0102	Core	23.252	SST	13
C	0110	Core (DP)	40.625	SST	4
D	0115	Core	23.252	SST	1
E	0116	Core	23.252	SST	1
+	0131	Core (source)	23.252	SST	1
F	0203	Core/Vessel	23.252	SST	2
G	0204	Core/Vessel (thermocouples)	23.252	SST	2
H	0301	Core/Vessel/Reflector	23.252	SST	4
I	0302	Core/Vessel/Reflector	23.252	SST	4
J	0451	Core/MCR	23.252	SST	1
K	0452	Core/MCR	23.252	SST	2
L	0454	Core/MCR	23.252	SST	1
M	0455	Core/MCR	23.252	SST	2
N	0456	Core/MCR	23.252	SST	1
O	0457	Core/MCR	23.252	SST	1
P	0500	Reflector	23.252	SST	48
Q	0501	Vessel/Reflector	23.252	SST	3
R	0502	Vessel/Reflector	23.252	SST	3
S	0503	Vessel/Reflector	23.252	SST	4
T	0504	Vessel/Reflector	23.252	SST	4
U	0505	Reflector/Poly	23.252	SST	8
V	0506	Reflector/Poly	23.252	SST	8
W	0507	Reflector/Poly	23.252	SST	8
X	0508	Reflector/Poly	23.252	SST	8
Y	0509	Reflector/Poly	23.252	SST	2
Z	0510	Reflector/Poly	23.252	SST	2
a	0511	Reflector/Poly	23.252	SST	2
b	0512	Reflector/Poly	23.252	SST	2
c	0513	Vessel/Reflector (PSR)	23.252	SST	1
d	0514	Vessel/Reflector (PSR)	23.252	SST	1
e	0600	Poly	23.252	none	184
f	0700	Core/MCR (detector)	23.252	SST	1
g	0701	Core/MCR (detector)	23.252	SST	1
h	0702	Core (detector)	23.252	SST	6
i	0704	Core/Vessel/Reflector (detector)	23.252	SST	2
j	0705	Core/Vessel/Reflector (detector)	23.252	SST	2
k	0706	Core/Vessel/Reflector (detector)	23.252	SST	2
l	0707	Core/Vessel/Reflector (detector)	23.252	SST	2
m	0713	Core/Vessel (detector)	23.252	SST	2
n	0714	Core/Vessel (detector)	23.252	SST	1
o	0715	Core/Vessel (detector)	23.252	SST	1
p	0716	Core (source, detector)	23.252	SST	1

Table 3 (cont'd). Drawer Identification and Type Data.

Symbol	Drawer Master Number	Role of Drawer	Length (inches)	Type of Drawer	Number in Loading 129
q	0718	Core (detector)	23.252	SST	1
r	0721	Core (detector)	23.252	SST	1
s	0722	Core (detector)	23.252	SST	1
	1800	Axial room return shield (back drawer)	-	none	178
	1873	Axial room return shield (PSR back drawer)	23.252	none	1
u	1909	Axial room return shield	-	none	108
v	1910	Radial room return shield	-	none	80
	2908	Axial room return shield (back drawer)	-	none	178
x	2909	Axial room return shield	-	none	108
y	2910	Radial room return shield	-	none	80
	2999	Axial room return shield (PSR back drawer)	-	none	1
	0191	DP Control Rod Shaft (back drawer)	-	none	4
t	0460	Core/MCR	23.252	SST	2
z	0461	Core/MCR	23.252	SST	2
#	9999	Empty Matrix	60.000	none	10636

The first drawer master listed in Table 3, Drawer Master 0101, which is depicted in Figures 4 and 5, is described in the first section of Table 4. Table 4 lists the specific plates and their positions within the drawer for all of the drawers used in ZPPR-20D Loading 129 (as shown in the matrix loading maps in Tables 1 and 2). The interpretation of the information in Table 4 will be illustrated by explaining Drawer Master 0101 with the aid of the corresponding drawer diagram, Figure 5.

We begin by observing from Figure 5 that the first eight inches of the first column is made of one plate—a 1/16 x 2 x 8-inch enriched uranium plate. Turning to Table 4, the first plate in drawer number 0101 indeed is shown to be 1/16 x 2 x 8-inch enriched uranium plate. The first column of the table gives two pieces of information, a terse plate material descriptor and the X, Y, and Z dimensions of the plate, respectively. As discussed below, these dimensions are only nominal in the case of clad uranium but otherwise are exact. The remaining columns of the table give the positions of the plates within the drawer. The second through fourth columns give the X, Y, and Z coordinates of the front lower left corner of a block of contiguous plates of this type. These are intra-drawer coordinates. That is, they do not account for 1) the Z offset due to the drawer front, 2) the Y offset due to the matrix tube thickness plus drawer bottom, or 3) the X offset due to the matrix tube thickness plus tube-drawer gap plus drawer side (see Figure 4). Even in the intra-drawer coordinate system, the X or Y coordinate may need adjusting when clad uranium is present in the drawer master, as discussed below. For this first plate, the position is seen to be the origin of the intra-drawer coordinates (0,0,0), again consistent with Figure 5. The last three columns describe

whether there is a single plate or a contiguous block of plates of this type. In this case, the block is one wide in X, one tall in Y, and one long in Z, that is, there is just a single plate. The second line of Table 4 indicates that a single 1/16x2x8 polyethylene plate starts at coordinates (0,0,8.11). This plate can be seen in Figure 5 behind the just described uranium plate. This completes the first plate column in Master 0101.

The reason the polyethylene plate starts at Z=8.11, instead of Z=8.00, is that each clad uranium plate is actually 0.11 inches (2.8 mm) longer than its nominal length. The length difference stems from the fact that the uranium plates were not intended to be clad when they were manufactured (and, in fact, were used unclad for decades). The nominal dimensions given in Table 4 are actually the dimensions of the uranium "meat" inside the cladding. The cladding is 0.055 inches thick (1.4 mm) at each end, resulting in the 8.11 inch total length for this clad uranium plate.

The convention used for drawer master files at the ZPPR facility is to show explicitly the true starting Z coordinate of plates affected by clad uranium but not to show explicitly the other effects of the uranium cladding. That convention was followed here in order to conform with the drawer master and plate library files. This is inherently a complicated issue but one that must be faced. Of course, the cladding wall thickness makes the width and height of the clad uranium greater than the nominal plate dimensions. The cladding wall is 0.005 inches (0.127 mm) thick. Due to subtleties of the cladding process, the finished clad plate height (Y dimension here) is just 0.010 (0.005+0.005) inches greater than the nominal (meat) height but the finished clad plate width (X dimension here) is 0.0115 inches greater than the nominal width. Thus, the true clad uranium plate height is 2.010 inches (51.054 mm) and the true clad uranium plate width is either 0.0740 inches (1.88 mm for nominal 1/16 inch plates) or 0.1365 inches (3.467 mm for nominal 1/8 inch plates).

A position adjustment consequence of the uranium cladding arises immediately when considering the second column of plates in Drawer Master 0101. The third line of Table 4 specifies a block of 0.031 x 2 x 12-inch rhenium plates starting at coordinates (0.0625, 0, 0), that is one wide in X, one tall in Y, and one long in Z. Figure 5 shows this plate adjacent to the first uranium/poly plate column. Looking carefully at the figure, one can see a tiny gap between the rhenium and the 1/16 inch polyethylene. To be precise, this is a 0.0115 inch gap resulting from the cladding on the sides of the first uranium plate. Thus, the true starting X location of the Re is 0.074 inches, as opposed to the nominal 0.0625 value shown in Table 4.

Moving now to the next column of plates, the fourth row of Table 4 has a block of 1/16 x 2 x 4-inch clad uranium plates that is two plates long in the Z direction. As with the Re before it, the nominal starting X location, 0.0935, must be incremented by 0.0115 to get the true starting X location, 0.1050 inches. This pair of plates can be seen in Figure 5. Behind the pair is the 0.4002 x 2 x 6-inch polyethylene plate specified in the fifth row of Table 4. As noted above, the starting Z location is the true value. It is 0.11 inches back from that of the first polyethylene plate because it has two clad uranium plates in front of it while the first plate has only one. Again, the starting X location must be incremented by 0.0115 inches because of the cladding on the very first uranium plate in the drawer. The next 20 lines in Table 4 complete the definition of the loading of Drawer Master 0101.

The last "plate" listed for Drawer Master 0101 is a retainer spring, whose purpose was to keep the plate loading from shifting when the drawer was handled. It may be noted that there was nearly a 9 inch gap between the end of the plate loading (14.22 inches) and the end of the nominally 23-inch

drawer, while the spring was only 1/16-inch thick. A U-shaped stainless steel clip was locked against the drawer sides just behind the plate loading and then the spring was pushed down between the plates and the clip. Every ZPPR-20D drawer master with a 23.252-inch long drawer and a spring also had this clip. The clip is not listed in Table 4, since it was not included in the drawer master file.

While the dimensions of the clad uranium and the X and Y starting locations of all plates are the nominal values in Table 4, Figures 4 and 5 show Drawer Master 0101 after accounting for the uranium cladding thicknesses, as implemented in the computer programs that process the ZPPR data files. All of the details necessary to generate true dimensions and positions from nominal values in Table 4 have been given, but it would be a daunting and error prone task to carry out by hand. As a practical matter, the dimension and position adjustments should be made using a computer program. The computer algorithm used to process the drawer masters introduced an artifact, which can be seen in Figures 4 and 5. Refer first to Figure 5 and focus on the plates between the Re column that is near the drawer edge and the Re column that is near the drawer center. There are two such sets and the phenomenon applies equally to both. The total width of the pair of adjacent 0.4002 and 11/32-inch polyethylene plates, which is located beyond Z equal 8.22 inches, is 0.0845 inches (2.1 mm) wider than the true total width of the set of six plate columns in front of that pair. It is the polyethylene pair in the back that governs the spacing between the Re plates. The algorithm starts at X=0 and places plates at the lowest X position they can occupy. A result is the appearance of a 0.0845 inch void at the upper X end of the block of plates in front of the polyethylene pair. The void can also be seen in Figure 4, to the right of each such set of plates. But in reality, there was nothing pushing the plates against the Re plate to their left. So, the 0.845-inch total gap actually was distributed naturally in a random way among six plate column interfaces, rather than collected at the right-most interface. This artificial collection of gaps in the model does no harm (see Section 2); it is simply noted here that the total gap was distributed in the actual experimental configuration.

Each of the sections of other drawer masters that contain clad uranium has a combined void width comparable to or less than that in Drawer Master 0101. Other drawer sections loaded with plates typically have less void. Drawer masters without clad uranium are not as complex as those with it but few ZPPR-20 drawer masters are simple.

The drawer masters identified in the third column of Table 3 as having an operational function warrant some additional explanation. In the case of the four DP control drawers, which served as safety rods and are called Fuel Safety Drawers in the ZPPR-20 documents, the drawers themselves were different; they had thinner walls (nominally 0.026 inches), were not perforated and were 40 inches long. Void cans were used to span the gap between the end of the normal plate loading and the drawer back. Each of the two PSR control drawers did not move but was only 1.5 inches wide. Each had a 0.5 inch by 2 inch guide tube next to it, through which a B_4C poison blade could move. The subcriticality measurement was made with the poison blades fully withdrawn; the front edge of the blade was approximately 30 inches back from the matrix interface, far beyond the core and axial polyethylene. Each of the two neutron source drawers had a 0.75x2x0.75 inch cavity at the front, where an Am-Be source was placed. This caused the core plate loading behind it to be shifted back 0.75 inches. In each of the two thermocouple drawers (Drawer Master 0204), the front 2 inches of an 1/8 inch uranium column was modified to use special 1/16 x 2 x 2 inch unclad uranium plates that have a small hole, into which a thermocouple was inserted. The electrical wires attached to the thermocouples were thin and easily could be threaded through the air gap above the drawer. The

fission chambers used in the 24 detector drawers were made from standard sodium void cans (1/4x2x6 or 1/2x2x6). Usually a short void frame was placed directly behind a 1/4x2x6 detector void can to facilitate threading the cables and gas tube that had to run from the detector, through the air gap, to the ZPPR plenum area. The void can/void frame pairs were substituted for polyethylene that simulated flooding of the lithium coolant channels.

There were 4 neutron detectors per half just inside the radial room return shield. The locations were matrix position 144-56 and five of the seven eighth-core-symmetric positions. The non-symmetric locations are 159-53, instead of 158-56, and 258-43 instead of 258-42. These are shown in Tables 1 and 2 as containing the axial shield front drawer master, 1909 in Half 1 and 2909 in Half 2. Each of these detectors is in the shape of a cylinder, 2 inches in diameter, that was loaded directly into a matrix tube. They provided signals to nuclear instrumentation for ZPPR operation. Each detector location could be represented by augmenting the axial shield drawer master to include a cylindrical metal shell at the front and creating a notch in the borated polyethylene axial shield block through which cables were threaded.

The matrix loading maps for back drawers are simple. The purpose of the back drawer masters was to provide axial shielding from room return neutrons. The outer annulus of the axial shield was formed using the *front* drawer masters 1909 (symbol u) and 2909 (symbol x). Radially inside of there, the axial shield was formed using the back drawer masters1800 and 2908 in Half 1 and Half 2, respectively. The only positions where these masters were not used in this area were the three positions per half where operational control rods were present. An axial shield layer is built into the (front) DP drawer master 0110 (symbol C) at Z=38 inches. Drawer Master 0191 is an approximation to the driver shaft behind the DP drawer. As noted above, the guide tube and B_4C poison blade were behind each of the two PSR drawers, Masters 0513 and 0514 (symbols c and d). Back drawer masters 1873 (Half 1) and 2999 (Half 2) have a 1.5x2x2 inch borated polyethylene axial shield block along side the PSR guide tube and the PSR blade inside the guide tube at its fully withdrawn position.

The front drawer length must be added to the starting Z location given in Table 4 in order to get the absolute axial starting position of a back drawer master plate. That length is 23.252 inches in every case except the DP drawers. The fact that none of the back drawer masters includes a drawer means there is no additional axial offset due to a drawer front on the back drawer. Consider back drawer master 1800 as an example. It is comprised of simply a 2-inch cube of borated polyethylene starting 11 inches back in the “drawer”. The absolute starting Z position of this cube is 34.252 inches.

Table 4. Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol A, Drawer Master 0101						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.0935	0	0	1	1	2
Polyethylene (White) (0.4002x2x6)	0.0935	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	2
Canned 93% U235 Series F (1/8x2x8)	0.3435	0	0	1	1	1
Niobium – 12V (1/8x2x8)	0.4685	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.4937	0	8.22	1	1	1
Canned 93% U235 Series I (1/8x2x4)	0.5935	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	0.8375	0	0	1	1	1
Polyethylene (0.25x2x4)	0.8685	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.8685	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.1185	0	0	1	1	1
Canned 93% U235 Series I (1/8x2x4)	1.1495	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	1.1495	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	1.2745	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.3995	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	1.4933	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	1.5245	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.712	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.8935	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9245	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9245	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol B, Drawer Master 0102						
Canned 93% U235 Series D (1/16x2x4)	0	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	0	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	0.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	0.34375	0	0	1	1	1
Polyethylene (0.25x2x4)	0.37475	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	0.62475	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.65575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.65575	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	0.78075	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.90575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.9995	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	1.03075	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.15575	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.34325	0	0	1	1	1
Polyethylene (0.25x2x4)	1.37425	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	1.37425	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.62425	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.65525	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.65525	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	1.78025	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	1.90525	0	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol C, Drawer Master 0110						
Rhenium (Re) (0.031x2x12)	0	0	0	1	1	1
Na Void Can (1/2x2x8)	0	0	14.11	4	1	1
Na Void Can (1/2x2x8)	0	0	22.11	4	1	1
Na Void Can (1/2x2x8)	0	0	30.11	4	1	1
Borated Poly (2x2x2)	0	0	38.11	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.031	0	0	2	1	1
Polyethylene (White) (11/32x2x6)	0.031	0	8.11	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	2
Canned 93% U235 Series F (1/8x2x8)	0.3435	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	0.37475	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	0.4685	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.5935	0	0	2	1	1
Polyethylene (0.25x2x4)	0.812	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.812	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	0.871	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.062	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.093	0	0	2	1	1
Polyethylene (White) (0.4002x2x6)	1.093	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	1.218	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.343	0	0	1	1	1
Polyethylene (0.1875x2x4)	1.468	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	1.49925	0	8.11	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.6555	0	0	2	1	1
Rhenium (Re) (0.031x2x12)	1.843	0	0	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol D, Drawer Master 0115						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.0935	0	0	1	1	2
Polyethylene (White) (0.4002x2x6)	0.0935	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	2
Canned 93% U235 Series F (1/8x2x8)	0.3435	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.4685	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.4937	0	8.22	1	1	1
Canned 93% U235 Series I (1/8x2x4)	0.5935	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	0.8375	0	0	1	1	1
Polyethylene (0.25x2x4)	0.8685	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.8685	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.1185	0	0	1	1	1
Canned 93% U235 Series I (1/8x2x4)	1.1495	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	1.1495	0	8.22	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.2745	0	0	1	1	1
Stainless Steel (SSTX) (1/16x2x2)	1.337	0	0	1	1	4
Canned 93% U235 Series F (1/8x2x8)	1.3995	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	1.4933	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	1.5245	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.712	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.8935	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9245	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9245	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol E, Drawer Master 0116						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.0935	0	0	1	1	2
Polyethylene (White) (0.4002x2x6)	0.0935	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	2
Canned 93% U235 Series F (1/8x2x8)	0.3435	0	0	1	1	1
Stainless Steel (SSTX) (1/16x2x2)	0.4685	0	0	1	1	4
Polyethylene (White) (11/32x2x6)	0.4937	0	8.22	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.531	0	0	1	1	1
Canned 93% U235 Series I (1/8x2x4)	0.5935	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	0.8375	0	0	1	1	1
Polyethylene (0.25x2x4)	0.8685	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.8685	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.1185	0	0	1	1	1
Canned 93% U235 Series I (1/8x2x4)	1.1495	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	1.1495	0	8.22	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.2745	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.3995	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	1.4933	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	1.5245	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.712	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.8935	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9245	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9245	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol +, Drawer Master 0131						
Void (0.78075x2x0.75) (Am-Be source)	0	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0	0	0.75	1	1	2
Polyethylene (White) (11/32x2x6)	0	0	8.97	1	1	1
Niobium – 12V (1/8x2x8)	0.0625	0	0.75	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.1875	0	0.75	1	1	1
Rhenium (Re) (0.031x2x12)	0.34375	0	0.75	1	1	1
Polyethylene (0.25x2x4)	0.37475	0	0.75	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.37475	0	8.75	1	1	1
Rhenium (Re) (0.031x2x12)	0.62475	0	0.75	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.65575	0	0.75	1	1	1
Polyethylene (White) (11/32x2x6)	0.65575	0	8.86	1	1	1
Niobium – 12V (1/8x2x8)	0.78075	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.90575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.9995	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	1.03075	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.15575	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.34325	0	0	1	1	1
Polyethylene (0.25x2x4)	1.37425	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	1.37425	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.62425	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.65525	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.65525	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	1.78025	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	1.90525	0	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol F, Drawer Master 0203						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	0.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	0.34375	0	0	1	1	1
Polyethylene (0.25x2x4)	0.37475	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	0.62475	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.65575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.65575	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	0.78075	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.90575	0	0	1	1	1
Rhenium (Re) (1/16x2x2)	0.9995	0	0	1	1	3
Rhenium (Re) (1/16x2x1)	0.9995	0	6	1	1	2
S.Steel Acid Etched (1/16x2x6)	0.9995	0	9	1	1	1
Niobium (Nb) (1/8x2x3)	1.062	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1.062	0	9	1	1	3
Polyethylene (White) (11/16x2x14)	1.187	0	0	1	1	1
Niobium (Nb) (1/8x2x3)	1.8745	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1.8745	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	1.8745	0	13	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol G, Drawer Master 0204						
Niobium (Nb) (1/8x2x3)	0	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	0	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	0	0	13	1	1	2
Polyethylene (White) (11/16x2x14)	0.125	0	0	1	1	1
Niobium (Nb) (1/8x2x3)	0.8125	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	0.8125	0	9	1	1	3
Rhenium (Re) (1/16x2x2)	0.9375	0	0	1	1	3
Rhenium (Re) (1/16x2x1)	0.9375	0	6	1	1	2
S.Steel Acid Etched (1/16x2x6)	0.9375	0	9	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	1.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.34375	0	0	1	1	1
Polyethylene (0.25x2x4)	1.37475	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	1.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.62475	0	0	1	1	1
Enriched U93-Red KEL-F Coating (1/16x2x2) (with thermocouples)	1.65575	0	0	2	1	1
Canned 93% U235 Series G (1/8x2x6)	1.65575	0	2	1	1	1
Polyethylene (White) (11/32x2x6)	1.65575	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	1.78075	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.90575	0	0	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol H, Drawer Master 0301						
Canned 93% U235 Series C (2x1/16x8)	0	0	0	1	1	1
Polyethylene (White) (2x1/16x6)	0	0	8.11	1	1	1
Rhenium (Re) (2x0.031x12)	0	0.06275	0	1	1	1
Polyethylene (White) (2x11/32x6)	0	0.15625	8.11	1	1	1
Canned 93% U235 Series C (2x1/16x8)	0	0.1875	0	1	1	1
Polyethylene (2x0.1875x4)	0	0.25	0	1	1	2
Canned 93% U235 Series C (2x1/16x8)	0	0.4375	0	1	1	1
Rhenium (Re) (2x1/16x2)	0	0.5	0	1	1	3
Rhenium (Re) (2x1/16x1)	0	0.5	6	1	1	2
S.Steel Acid Etched (2x1/16x6)	0	0.5	9	1	1	1
Niobium (Nb) (2x1/8x3)	0	0.5625	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	0.5625	9	1	1	3
Polyethylene (White) (2x11/16x14)	0	0.6875	0	1	1	1
Niobium (Nb) (2x1/8x3)	0	1.375	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	1.375	9	1	1	2
Niobium (Nb) (2x1/8x1)	0	1.375	13	1	1	2
Beryllium Oxide (BEO) (2x1/8x3)	0	1.5	0	1	4	1
Beryllium Oxide (BEO) (2x1/8x3)	0	1.5	3	1	4	1
Beryllium Oxide (BEO) (2x1/8x2)	0	1.5	6	1	4	1
Polyethylene/Block Hi-Density (2x1/4x6)	0	1.5	8	1	2	1
Retainer Spring (2x2x1/16)	0	0	14.11	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol I, Drawer Master 0302						
Beryllium Oxide (BEO) (2x1/8x3)	0	0	0	1	4	1
Beryllium Oxide (BEO) (2x1/8x3)	0	0	3	1	4	1
Beryllium Oxide (BEO) (2x1/8x2)	0	0	6	1	4	1
Polyethylene/Block Hi-Density (2x1/4x6)	0	0	8	1	2	1
Niobium (Nb) (2x1/8x3)	0	0.5	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	0.5	9	1	1	2
Niobium (Nb) (2x1/8x1)	0	0.5	13	1	1	2
Polyethylene (White) (2x11/16x14)	0	0.625	0	1	1	1
Niobium (Nb) (2x1/8x3)	0	1.3125	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	1.3125	9	1	1	3
Rhenium (Re) (2x1/16x2)	0	1.4375	0	1	1	3
Rhenium (Re) (2x1/16x1)	0	1.4375	6	1	1	2
S.Steel Acid Etched (2x1/16x6)	0	1.4375	9	1	1	1
Canned 93% U235 Series C (2x1/16x8)	0	1.5	0	1	1	1
Polyethylene (White) (2x11/32x6)	0	1.5	8.11	1	1	1
Polyethylene (2x0.1875x4)	0	1.5625	0	1	1	2
Canned 93% U235 Series C (2x1/16x8)	0	1.75	0	1	1	1
Rhenium (Re) (2x0.031x12)	0	1.90625	0	1	1	1
Canned 93% U235 Series C (2x1/16x8)	0	1.9375	0	1	1	1
Polyethylene (White) (2x1/16x6)	0	1.9375	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.11	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol J, Drawer Master 0451						
B4C (Enriched) (1/8x2x1)	0	0	0	1	1	8
Beryllium Oxide (BEO) (1x2x2)	0	0	8	1	1	7
B4C (Enriched) (1/8x2x1)	0.125	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	0.25	0	0	1	1	8
B4C (Enriched) (1/4x2x2)	0.375	0	0	1	1	2
B4C (Enriched) (1/4x2x1)	0.375	0	4	1	1	1
B4C (Enriched) (1/8x2x1)	0.375	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	0.5	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	0.625	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	0.75	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	0.875	0	0	1	1	8
Canned 93% U235 Series C (1/16x2x8)	1	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1	0	8.11	1	1	1
Na Void Can (1/2x2x8)	1	0	14.22	2	1	1
Niobium – 12V (1/8x2x8)	1.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.34375	0	0	1	1	1
Polyethylene (0.25x2x4)	1.37475	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	1.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.62475	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.65575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.65575	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	1.78075	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	1.90575	0	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	22.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol K, Drawer Master 0452						
Canned 93% U235 Series D (1/16x2x4)	0	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	0	0	8.22	1	1	1
Na Void Can (1/2x2x8)	0	0	14.22	2	1	1
Niobium – 12V (1/8x2x8)	0.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	0.34375	0	0	1	1	1
Polyethylene (0.25x2x4)	0.37475	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	0.62475	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.65575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.65575	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	0.78075	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.90575	0	0	1	1	1
B4C (Enriched) (1/8x2x1)	1	0	0	1	1	8
Beryllium Oxide (BEO) (1x2x2)	1	0	8	1	1	7
B4C (Enriched) (1/8x2x1)	1.125	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.25	0	0	1	1	8
B4C (Enriched) (1/4x2x2)	1.375	0	0	1	1	2
B4C (Enriched) (1/4x2x1)	1.375	0	4	1	1	1
B4C (Enriched) (1/8x2x1)	1.375	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	1.5	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	1.625	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.75	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.875	0	0	1	1	8
Retainer Spring (2x2x1/16)	0	0	22.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol L, Drawer Master 0454						
Canned 93% U235 Series D (1/16x2x4)	0	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	0	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	0.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	0.34375	0	0	1	1	1
Polyethylene (0.25x2x4)	0.37475	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	0.62475	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.65575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.65575	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	0.78075	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.90575	0	0	1	1	1
B4C (Enriched) (1/8x2x1)	1	0	0	1	1	8
Polyethylene (White) (1x2x6)	1	0	8	1	1	1
B4C (Enriched) (1/8x2x1)	1.125	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.25	0	0	1	1	8
B4C (Enriched) (1/4x2x2)	1.375	0	0	1	1	2
B4C (Enriched) (1/4x2x1)	1.375	0	4	1	1	1
B4C (Enriched) (1/8x2x1)	1.375	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	1.5	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	1.625	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.75	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.875	0	0	1	1	8
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol M, Drawer Master 0455						
B4C (Enriched) (1/8x2x1)	0	0	0	1	1	8
Polyethylene (White) (1x2x6)	0	0	8	1	1	1
B4C (Enriched) (1/8x2x1)	0.125	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	0.25	0	0	1	1	8
B4C (Enriched) (1/4x2x2)	0.375	0	0	1	1	2
B4C (Enriched) (1/4x2x1)	0.375	0	4	1	1	1
B4C (Enriched) (1/8x2x1)	0.375	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	0.5	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	0.625	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	0.75	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	0.875	0	0	1	1	8
Canned 93% U235 Series C (1/16x2x8)	1	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1	0	8.11	1	1	1
Niobium – 12V (1/8x2x8)	1.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.34375	0	0	1	1	1
Polyethylene (0.25x2x4)	1.37475	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	1.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.62475	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.65575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.65575	0	8.22	1	1	1
Niobium – 12V (1/8x2x8)	1.78075	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	1.90575	0	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol N, Drawer Master 0456						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Na Void Can (1/2x2x8)	0	0	14.22	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.0935	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	0.0935	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	2
Canned 93% U235 Series C (1/16x2x8)	0.3435	0	0	1	1	1
B4C (Enriched) (1/8x2x1)	0.5	0	0	1	1	8
Beryllium Oxide (BEO) (1x2x2)	0.5	0	8	1	1	7
B4C (Enriched) (1/8x2x1)	0.625	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	0.75	0	0	1	1	8
B4C (Enriched) (1/4x2x2)	0.875	0	0	1	1	2
B4C (Enriched) (1/4x2x1)	0.875	0	4	1	1	1
B4C (Enriched) (1/8x2x1)	0.875	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	1	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	1.125	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.25	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.375	0	0	1	1	8
Canned 93% U235 Series C (1/16x2x8)	1.5	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.5	0	8.22	1	1	1
Na Void Can (1/2x2x8)	1.5	0	14.22	1	1	1
Polyethylene (0.1875x2x4)	1.5625	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.75	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.84375	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.87475	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.87475	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	22.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol O, Drawer Master 0457						
Polyethylene (White) (1/16x2x6)	0.0627	0	8.11	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.0627	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	0.1252	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.1562	0	8.22	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.1875	0	0	1	1	2
Polyethylene (0.1875x2x4)	0.25	0	0	1	1	2
Canned 93% U235 Series C (1/16x2x8)	0.4375	0	0	1	1	1
B4C (Enriched) (1/8x2x1)	0.5	0	0	1	1	8
Polyethylene (White) (1x2x6)	0.5	0	8	1	1	1
B4C (Enriched) (1/8x2x1)	0.625	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	0.75	0	0	1	1	8
B4C (Enriched) (1/4x2x2)	0.875	0	0	1	1	2
B4C (Enriched) (1/4x2x1)	0.875	0	4	1	1	1
B4C (Enriched) (1/8x2x1)	0.875	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	1	0	5	1	1	3
B4C (Enriched) (1/8x2x1)	1.125	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.25	0	0	1	1	8
B4C (Enriched) (1/8x2x1)	1.375	0	0	1	1	8
Canned 93% U235 Series C (1/16x2x8)	1.5	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.5	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	1.5625	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.75	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.844	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.87525	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.87525	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol t, Drawer Master 0460						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.1248	0	0	1	1	2
Polyethylene (White) (0.4002x2x6)	0.1248	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.1873	0	0	1	1	2
Canned 93% U235 Series C (1/16x2x8)	0.4373	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x2)	0.4998	0	0	1	1	4
Polyethylene (White) (1x2x6)	0.5000	0	8	1	1	1
Polyethylene (White) (0.4002x2x6)	1.5000	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	1.5623	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.8123	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.90625	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9375	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9375	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol z, Drawer Master 0461						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Na Void Can (1/2x2x8)	0	0	14.22	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.1248	0	0	1	1	2
Polyethylene (White) (0.4002x2x6)	0.1248	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.1873	0	0	1	1	2
Canned 93% U235 Series C (1/16x2x8)	0.4373	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x2)	0.5000	0	0	1	1	4
B4C (Enriched) (1/8x2x1)	0.5000	0	8.00	3	1	14
B4C (Enriched) (1/8x2x1)	0.875	0	8.00	2	1	3
B4C (Enriched) (1/4x2x1)	0.875	0	11.00	1	1	1
B4C (Enriched) (1/4x2x2)	0.875	0	12.00	1	1	4
B4C (Enriched) (1/4x2x1)	0.875	0	20.00	1	1	1
B4C (Enriched) (1/8x2x1)	0.875	0	21.00	2	1	1
B4C (Enriched) (1/8x2x1)	1.125	0	8.00	3	1	14
Polyethylene (White) (0.4002x2x6)	1.5000	0	8.22	1	1	1
Na Void Can (1/2x2x8)	1.5000	0	14.22	1	1	1
Polyethylene (0.1875x2x4)	1.5623	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.8123	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.90625	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9375	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9375	0	8.22	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1
Identification Symbol P, Drawer Master 0500						
Beryllium Oxide (BEO) (1x2x3)	0	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x5)	0	0	3	1	1	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Beryllium Oxide (BEO) (1x2x3)	1	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x5)	1	0	3	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol Q, Drawer Master 0501						
Rhenium (Re) (1/16x2x2)	0	0	0	1	1	3
Rhenium (Re) (1/16x2x1)	0	0	6	1	1	2
Stainless Steel (SSTX) (1/16x2x3)	0	0	8	1	1	1
Stainless Steel (SSTX) (1/16x2x2)	0	0	11	1	1	2
Niobium (Nb) (1/8x2x3)	0.0625	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	0.0625	0	9	1	1	3
Polyethylene (White) (11/16x2x14)	0.1875	0	0	1	1	1
Niobium (Nb) (1/8x2x3)	0.875	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	0.875	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	0.875	0	13	1	1	2
Beryllium Oxide (BEO) (1x2x3)	1	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x5)	1	0	3	1	1	1
Polyethylene (White) (1x2x6)	1	0	8	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol R, Drawer Master 0502						
Beryllium Oxide (BEO) (1x2x3)	0	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x5)	0	0	3	1	1	1
Polyethylene (White) (1x2x6)	0	0	8	1	1	1
Niobium (Nb) (1/8x2x3)	1	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	1	0	13	1	1	2
Polyethylene (White) (11/16x2x14)	1.125	0	0	1	1	1
Niobium (Nb) (1/8x2x3)	1.8125	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1.8125	0	9	1	1	3
Rhenium (Re) (1/16x2x2)	1.9375	0	0	1	1	3
Rhenium (Re) (1/16x2x1)	1.9375	0	6	1	1	2
Stainless Steel (SSTX) (1/16x2x3)	1.9375	0	8	1	1	1
Stainless Steel (SSTX) (1/16x2x2)	1.9375	0	11	1	1	2
Retainer Spring (2x2x1/16)	0	0	14	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol S, Drawer Master 0503						
Rhenium (Re) (2x1/16x2)	0	0	0	1	1	3
Rhenium (Re) (2x1/16x1)	0	0	6	1	1	2
Stainless Steel (SSTX) (2x1/16x3)	0	0	8	1	1	1
Stainless Steel (SSTX) (2x1/16x2)	0	0	11	1	1	2
Niobium (Nb) (2x1/8x3)	0	0.0625	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	0.0625	9	1	1	3
Polyethylene (White) (2x11/16x14)	0	0.1875	0	1	1	1
Niobium (Nb) (2x1/8x3)	0	0.875	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	0.875	9	1	1	2
Niobium (Nb) (2x1/8x1)	0	0.875	13	1	1	2
Beryllium Oxide (BEO) (2x1x3)	0	1	0	1	1	1
Beryllium Oxide (BEO) (2x1x5)	0	1	3	1	1	1
Polyethylene (White) (2x1x6)	0	1	8	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol T, Drawer Master 0504						
Beryllium Oxide (BEO) (2x1x3)	0	0	0	1	1	1
Beryllium Oxide (BEO) (2x1x5)	0	0	3	1	1	1
Polyethylene (White) (2x1x6)	0	0	8	1	1	1
Niobium (Nb) (2x1/8x3)	0	1	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	1	9	1	1	2
Niobium (Nb) (2x1/8x1)	0	1	13	1	1	2
Polyethylene (White) (2x11/16x14)	0	1.125	0	1	1	1
Niobium (Nb) (2x1/8x3)	0	1.8125	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	1.8125	9	1	1	3
Rhenium (Re) (2x1/16x2)	0	1.9375	0	1	1	3
Rhenium (Re) (2x1/16x1)	0	1.9375	6	1	1	2
Stainless Steel (SSTX) (2x1/16x3)	0	1.9375	8	1	1	1
Stainless Steel (SSTX) (2x1/16x2)	0	1.9375	11	1	1	2
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol U, Drawer Master 0505						
Beryllium Oxide (BEO) (1/8x2x3)	0	0	0	4	1	1
Beryllium Oxide (BEO) (1/8x2x3)	0	0	3	4	1	1
Beryllium Oxide (BEO) (1/8x2x2)	0	0	6	4	1	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Polyethylene (White) (1x2x8)	0.5	0	0	1	1	1
Polyethylene (White) (1/2x2x8)	1.5	0	0	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol V, Drawer Master 0506						
Polyethylene (White) (1/2x2x8)	0	0	0	1	1	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Polyethylene (White) (1x2x8)	0.5	0	0	1	1	1
Beryllium Oxide (BEO) (1/8x2x3)	1.5	0	0	4	1	1
Beryllium Oxide (BEO) (1/8x2x3)	1.5	0	3	4	1	1
Beryllium Oxide (BEO) (1/8x2x2)	1.5	0	6	4	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol W, Drawer Master 0507						
Beryllium Oxide (BEO) (2x1/8x3)	0	0	0	1	4	1
Beryllium Oxide (BEO) (2x1/8x3)	0	0	3	1	4	1
Beryllium Oxide (BEO) (2x1/8x2)	0	0	6	1	4	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Polyethylene (White) (2x1x8)	0	0.5	0	1	1	1
Polyethylene (White) (2x1/2x8)	0	1.5	0	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol X, Drawer Master 0508						
Polyethylene (White) (2x1/2x8)	0	0	0	1	1	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Polyethylene (White) (2x1x8)	0	0.5	0	1	1	1
Beryllium Oxide (BEO) (2x1/8x3)	0	1.5	0	1	4	1
Beryllium Oxide (BEO) (2x1/8x3)	0	1.5	3	1	4	1
Beryllium Oxide (BEO) (2x1/8x2)	0	1.5	6	1	4	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol Y, Drawer Master 0509						
Beryllium Oxide (BEO) (1x2x3)	0	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x5)	0	0	3	1	1	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Polyethylene (White) (1x2x8)	1	0	0	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol Z, Drawer Master 0510						
Polyethylene (White) (1x2x8)	0	0	0	1	1	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Beryllium Oxide (BEO) (1x2x3)	1	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x5)	1	0	3	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol a, Drawer Master 0511						
Beryllium Oxide (BEO) (2x1x3)	0	0	0	1	1	1
Beryllium Oxide (BEO) (2x1x5)	0	0	3	1	1	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Polyethylene (White) (2x1x8)	0	1	0	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol b, Drawer Master 0512						
Polyethylene (White) (2x1x8)	0	0	0	1	1	1
Polyethylene/Block Hi-Density (2x2x6)	0	0	8	1	1	1
Beryllium Oxide (BEO) (2x1x3)	0	1	0	1	1	1
Beryllium Oxide (BEO) (2x1x5)	0	1	3	1	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1
Identification Symbol c, Drawer Master 0513						
PSR Guide Tube (1/2x2x1)	0	0	0	1	1	23
Rhenium (Re) (1/16x2x3)	0.5	0	0	1	1	2
Rhenium (Re) (1/16x2x1)	0.5	0	6	1	1	2
S.Steel Acid Etched (1/16x2x6)	0.5	0	8	2	1	1
Stainless Steel (SSTX) (1/16x2x2)	0.5625	0	6	1	1	1
Polyethylene (0.25x2x4)	0.625	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.625	0	8	1	1	1
Niobium (Nb) (1/8x2x3)	0.875	0	0	1	1	5
Beryllium Oxide (BEO) (1x2x3)	1	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x5)	1	0	3	1	1	1
Polyethylene (White) (1x2x6)	1	0	8	1	1	1
Retainer spring (narrow dr.) (1 1/2x2x1/16)	0.5	0	23.25	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol d, Drawer Master 0514						
Beryllium Oxide (BEO) (1x2x3)	0	0	0	1	1	1
Beryllium Oxide (BEO) (1x2x5)	0	0	3	1	1	1
Polyethylene (White) (1x2x6)	0	0	8	1	1	1
Niobium (Nb) (1/8x2x3)	1	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	1	0	13	1	1	2
Polyethylene (0.25x2x4)	1.125	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	1.125	0	8	1	1	1
Stainless Steel (SSTX) (1/16x2x3)	1.375	0	0	1	1	2
Stainless Steel (SSTX) (1/16x2x2)	1.375	0	6	1	1	1
Stainless Steel (SSTX) (1/16x2x3)	1.375	0	8	2	1	1
Stainless Steel (SSTX) (1/16x2x2)	1.375	0	11	2	1	1
Stainless Steel (SSTX) (1/16x2x2)	1.375	0	13	2	1	1
Rhenium (Re) (1/16x2x3)	1.4375	0	0	1	1	2
Rhenium (Re) (1/16x2x1)	1.4375	0	6	1	1	2
PSR Guide Tube (1/2x2x1)	1.5	0	0	1	1	23
Retainer spring (narrow dr.) (1 1/2x2x1/16)	0	0	23.25	1	1	1
Identification Symbol e, Drawer Master 0600						
Polyethylene/Block Hi-Density (2x2x12)	0	0	0	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol f, Drawer Master 0700						
B4C (Enriched) (1/8x2x1)	0	0	0	1	1	5
B4C (Enriched) (1/8x2x1)	0	0	5	8	1	1
B4C (Enriched) (1/8x2x1)	0	0	6	8	1	1
B4C (Enriched) (1/8x2x1)	0	0	7	8	1	1
Beryllium Oxide (BEO) (1x2x2)	0	0	8	1	1	2
Beryllium Oxide (BEO) (1x2x2)	0	0	12	1	1	2
Beryllium Oxide (BEO) (1x2x2)	0	0	16	1	1	2
Beryllium Oxide (BEO) (1x2x2)	0	0	20	1	1	1
B4C (Enriched) (1/8x2x1)	0.125	0	0	1	1	5
B4C (Enriched) (1/8x2x1)	0.25	0	0	1	1	5
B4C (Enriched) (1/4x2x2)	0.375	0	0	1	1	2
B4C (Enriched) (1/4x2x1)	0.375	0	4	1	1	1
B4C (Enriched) (1/8x2x1)	0.625	0	0	1	1	5
B4C (Enriched) (1/8x2x1)	0.75	0	0	1	1	5
B4C (Enriched) (1/8x2x1)	0.875	0	0	1	1	5
Canned 93% U235 Series C (1/16x2x8)	1	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1	0	8.11	1	1	1
Na Void Frame (1/4x1x2)	1	1	14.22	1	1	4
Niobium - 12V (1/8x2x8)	1.0625	0	0	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	1.0625	0	8.11	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.1875	0	0	1	1	1
Na Void Frame (1/4x1x2)	1.25	1	14.22	1	1	4
Rhenium (Re) (0.031x2x12)	1.3125	0	0	1	1	1
Na Void Can (1/4x2x6) (detector)	1.3435	0	0	1	1	1
Na Void Frame (1/4x1x2)	1.3435	1	6	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	1.3435	0	8	1	1	1
Na Void Can (1/2x2x8)	1.5	0	14.22	1	1	1
Rhenium (Re) (0.031x2x12)	1.5935	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.6245	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.6245	0	8.22	1	1	1
Niobium - 12V (1/8x2x8)	1.7495	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	1.8745	0	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	22.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol g, Drawer Master 0701						
Canned 93% U235 Series D (1/16x2x4)	0	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	0	0	8.22	1	1	1
Niobium - 12V (1/8x2x8)	0.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	0.34375	0	0	1	1	1
Na Void Can (1/4x2x6) (detector)	0.37475	0	0	1	1	1
Na Void Frame (1/4x1x2)	0.37475	1	6	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	0.62465	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.65575	0	0	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0.65575	0	8.11	1	1	1
Niobium - 12V (1/8x2x8)	0.78075	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.90575	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0.90575	0	8.11	1	1	1
B4C (Enriched) (1/8x2x1)	1	0	0	1	1	5
B4C (Enriched) (1/8x2x1)	1	0	5	8	1	1
B4C (Enriched) (1/8x2x1)	1	0	6	8	1	1
B4C (Enriched) (1/8x2x1)	1	0	7	8	1	1
Polyethylene (White) (1x2x6)	1	0	8	1	1	1
B4C (Enriched) (1/8x2x1)	1.125	0	0	1	1	5
B4C (Enriched) (1/8x2x1)	1.25	0	0	1	1	5
B4C (Enriched) (1/4x2x2)	1.375	0	0	1	1	2
B4C (Enriched) (1/4x2x1)	1.375	0	4	1	1	1
B4C (Enriched) (1/8x2x1)	1.625	0	0	1	1	5
B4C (Enriched) (1/8x2x1)	1.75	0	0	1	1	5
B4C (Enriched) (1/8x2x1)	1.875	0	0	1	1	5
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol h, Drawer Master 0702						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.0935	0	0	1	1	2
Polyethylene (White) (0.4002x2x6)	0.0935	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	2
Canned 93% U235 Series F (1/8x2x8)	0.3435	0	0	1	1	1
Niobium - 12V (1/8x2x8)	0.4685	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.4937	0	8.22	1	1	1
Canned 93% U235 Series I (1/8x2x4)	0.5935	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	0.8375	0	0	1	1	1
Na Void Can (1/4x2x6) (detector)	0.8685	0	0	1	1	1
Na Void Frame (1/4x1x2)	0.8685	1	6	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0.8685	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.1185	0	0	1	1	1
Canned 93% U235 Series I (1/8x2x4)	1.1495	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	1.1495	0	8.22	1	1	1
Niobium - 12V (1/8x2x8)	1.2745	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.3995	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	1.4933	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	1.5245	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.712	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.8935	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9245	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9245	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol i, Drawer Master 0704						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.0935	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	0.0935	0	8.11	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	4	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.3435	0	0	1	1	1
Rhenium (Re) (1/16x2x2)	0.49975	0	0	1	1	3
Rhenium (Re) (1/16x2x1)	0.49975	0	6	1	1	2
S.Steel Acid Etched (1/16x2x6)	0.49975	0	9	1	1	1
Niobium (Nb) (1/8x2x3)	0.56225	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	0.56225	0	9	1	1	3
Polyethylene (0.25x2x4)	0.68725	0	0	1	1	1
Polyethylene (0.25x2x4)	0.68725	0	4	1	1	1
Polyethylene/Block Hi-Density (3/16x2x6)	0.68725	0	8	1	1	1
Na Void Can (1/2x2x6)	0.87475	0	8	1	1	1
Polyethylene (0.1875x2x4)	0.93725	0	0	1	1	1
Polyethylene (0.1875x2x4)	0.93725	0	4	1	1	1
Polyethylene (0.25x2x4)	1.12475	0	0	1	1	1
Polyethylene (0.25x2x4)	1.12475	0	4	1	1	1
Niobium (Nb) (1/8x2x3)	1.37475	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1.37475	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	1.37475	0	13	1	1	2
Beryllium Oxide (BEO) (1/8x2x3)	1.49975	0	0	4	1	1
Beryllium Oxide (BEO) (1/8x2x3)	1.49975	0	3	4	1	1
Beryllium Oxide (BEO) (1/8x2x2)	1.49975	0	6	4	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	1.49975	0	8	2	1	1
Retainer Spring (2x2x1/16)	0	0	14	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol j, Drawer Master 0705						
Beryllium Oxide (BEO) (1/8x2x3)	0	0	0	4	1	1
Beryllium Oxide (BEO) (1/8x2x3)	0	0	3	4	1	1
Beryllium Oxide (BEO) (1/8x2x2)	0	0	6	4	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0	0	8	2	1	1
Niobium (Nb) (1/8x2x3)	0.5	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	0.5	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	0.5	0	13	1	1	2
Polyethylene (0.25x2x4)	0.625	0	0	1	1	1
Polyethylene (0.25x2x4)	0.625	0	4	1	1	1
Na Void Can (1/2x2x6) (detector)	0.625	0	8	1	1	1
Polyethylene (0.1875x2x4)	0.875	0	0	1	1	1
Polyethylene (0.1875x2x4)	0.875	0	4	1	1	1
Polyethylene (0.25x2x4)	1.0625	0	0	1	1	1
Polyethylene (0.25x2x4)	1.0625	0	4	1	1	1
Polyethylene/Block Hi-Density (3/16x2x6)	1.125	0	8	1	1	1
Niobium (Nb) (1/8x2x3)	1.3125	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1.3125	0	9	1	1	3
Rhenium (Re) (1/16x2x2)	1.4375	0	0	1	1	3
Rhenium (Re) (1/16x2x1)	1.4375	0	6	1	1	2
S.Steel Acid Etched (1/16x2x6)	1.4375	0	9	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.5	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	1.5	0	8.11	1	1	1
Polyethylene (0.1875x2x4)	1.5625	0	0	1	1	1
Polyethylene (0.1875x2x4)	1.5625	0	4	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.75	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.9002	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9312	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9312	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.11	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol k, Drawer Master 0706						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.0935	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	0.0935	0	8.11	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	4	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.3435	0	0	1	1	1
Rhenium (Re) (1/16x2x2)	0.5	0	0	1	1	3
Rhenium (Re) (1/16x2x1)	0.5	0	6	1	1	2
S.Steel Acid Etched (1/16x2x6)	0.5	0	9	1	1	1
Niobium (Nb) (1/8x2x3)	0.5625	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	0.5625	0	9	1	1	3
Polyethylene (0.1875x2x4)	0.6875	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.6875	0	8	1	1	1
Na Void Can (1/2x2x6) (detector)	0.875	0	0	1	1	1
Polyethylene/Block Hi-Density (3/16x2x6)	0.9375	0	8	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	1.125	0	8	1	1	1
Niobium (Nb) (1/8x2x3)	1.375	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1.375	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	1.375	0	13	1	1	2
Beryllium Oxide (BEO) (1/8x2x3)	1.5	0	0	4	1	1
Beryllium Oxide (BEO) (1/8x2x3)	1.5	0	3	4	1	1
Beryllium Oxide (BEO) (1/8x2x2)	1.5	0	6	4	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	1.5	0	8	2	1	1
Retainer Spring (2x2x1/16)	0	0	14.11	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol l, Drawer Master 0707						
Beryllium Oxide (BEO) (1/8x2x3)	0	0	0	4	1	1
Beryllium Oxide (BEO) (1/8x2x3)	0	0	3	4	1	1
Beryllium Oxide (BEO) (1/8x2x2)	0	0	6	4	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0	0	8	2	1	1
Niobium (Nb) (1/8x2x3)	0.5	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	0.5	0	9	1	1	2
Niobium (Nb) (1/8x2x1)	0.5	0	13	1	1	2
Na Void Can (1/2x2x6) (detector)	0.625	0	0	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0.625	0	8	1	1	1
Polyethylene/Block Hi-Density (3/16x2x6)	0.875	0	8	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	1.0625	0	8	1	1	1
Polyethylene (0.1875x2x4)	1.125	0	0	1	1	2
Niobium (Nb) (1/8x2x3)	1.3125	0	0	1	1	3
Niobium (Nb) (1/8x2x2)	1.3125	0	9	1	1	3
Rhenium (Re) (1/16x2x2)	1.4375	0	0	1	1	3
Rhenium (Re) (1/16x2x1)	1.4375	0	6	1	1	2
S.Steel Acid Etched (1/16x2x6)	1.4375	0	9	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.5	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	1.5	0	8.11	1	1	1
Polyethylene (0.1875x2x4)	1.5625	0	0	1	1	1
Polyethylene (0.1875x2x4)	1.5625	0	4	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.75	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.9002	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9312	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9312	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.11	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol m, Drawer Master 0713						
Polyethylene (White) (2x11/32x6)	0	0.03125	8.22	1	1	1
Canned 93% U235 Series D (2x1/16x4)	0	0.062	0	1	1	2
Niobium - 12V (2x1/8x8)	0	0.125	0	1	1	1
Canned 93% U235 Series F (2x1/8x8)	0	0.25	0	1	1	1
Rhenium (Re) (2x0.031x12)	0	0.37525	0	1	1	1
Polyethylene (2x0.25x4)	0	0.40625	0	1	1	2
Polyethylene/Block Hi-Density (2x1/4x6)	0	0.40625	8	1	1	1
Rhenium (Re) (2x0.031x12)	0	0.6565	0	1	1	1
Canned 93% U235 Series F (2x1/8x8)	0	0.6875	0	1	1	1
Polyethylene (White) (2x1/16x6)	0	0.6875	8.11	1	1	1
Polyethylene/Block Hi-Density (2x1/4x6)	0	0.75	8.11	1	1	1
Niobium - 12V (2x1/8x8)	0	0.8125	0	1	1	1
Canned 93% U235 Series C (2x1/16x8)	0	0.9375	0	1	1	1
Rhenium (Re) (2x1/16x2)	0	1	0	1	1	3
Rhenium (Re) (2x1/16x1)	0	1	6	1	1	2
S.Steel Acid Etched (2x1/16x6)	0	1	9	1	1	1
Niobium (Nb) (2x1/8x3)	0	1.0625	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	1.0625	9	1	1	3
Polyethylene (2x0.1875x4)	0	1.1875	0	1	1	2
Polyethylene/Block Hi-Density (2x3/16x6)	0	1.1875	8	1	1	1
Na Void Can (2x1/2x6) (detector)	0	1.375	0	1	1	1
Void Can Open end (2x1/2x9)	0	1.375	6	1	1	1
Niobium (Nb) (2x1/8x3)	0	1.875	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	1.875	9	1	1	2
Niobium (Nb) (2x1/8x1)	0	1.875	13	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol n, Drawer Master 0714						
Niobium (Nb) (2x1/8x3)	0	0	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	0	9	1	1	2
Niobium (Nb) (2x1/8x1)	0	0	13	1	1	2
Na Void Can (2x1/2x6) (detector)	0	0.125	0	1	1	1
Polyethylene/Block Hi-Density (2x1/4x6)	0	0.125	8	1	1	1
Polyethylene/Block Hi-Density (2x1/4x6)	0	0.375	8	1	1	1
Polyethylene (2x0.1875x4)	0	0.625	0	1	1	2
Polyethylene/Block Hi-Density (2x3/16x6)	0	0.625	8	1	1	1
Niobium (Nb) (2x1/8x3)	0	0.8125	0	1	1	3
Niobium (Nb) (2x1/8x2)	0	0.8125	9	1	1	3
Rhenium (Re) (2x1/16x2)	0	0.9375	0	1	1	3
Rhenium (Re) (2x1/16x1)	0	0.9375	6	1	1	2
S.Steel Acid Etched (2x1/16x6)	0	0.9375	9	1	1	1
Canned 93% U235 Series C (2x1/16x8)	0	1	0	1	1	1
Polyethylene/Block Hi-Density (2x1/4x6)	0	1	8.11	1	1	1
Niobium - 12V (2x1/8x8)	0	1.0625	0	1	1	1
Canned 93% U235 Series F (2x1/8x8)	0	1.1875	0	1	1	1
Polyethylene (White) (2x1/16x6)	0	1.25	8.11	1	1	1
Rhenium (Re) (2x0.031x12)	0	1.3125	0	1	1	1
Polyethylene (2x0.25x4)	0	1.34375	0	1	1	2
Polyethylene/Block Hi-Density (2x1/4x6)	0	1.34375	8	1	1	1
Rhenium (Re) (2x0.031x12)	0	1.59375	0	1	1	1
Canned 93% U235 Series F (2x1/8x8)	0	1.625	0	1	1	1
Polyethylene (White) (2x11/32x6)	0	1.625	8.22	1	1	1
Niobium - 12V (2x1/8x8)	0	1.75	0	1	1	1
Canned 93% U235 Series D (2x1/16x4)	0	1.8755	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol o, Drawer Master 0715						
Niobium (Nb) (2x1/8x3)	0	0	0	1	1	3
Niobium (Nb) (2x1/8x3)	0	0	9	1	1	2
Polyethylene (2x0.25x4)	0	0.125	0	1	1	2
Polyethylene/Block Hi-Density (2x3/16x6)	0	0.125	8	1	1	1
Na Void Can (2x1/2x6) (detector)	0	0.3125	8	1	1	1
Polyethylene (2x0.1875x4)	0	0.375	0	1	1	2
Polyethylene (2x0.25x4)	0	0.5625	0	1	1	2
Niobium (Nb) (2x1/8x3)	0	0.8125	0	1	1	3
Niobium (Nb) (2x1/8x3)	0	0.8125	9	1	1	2
Rhenium (Re) (2x1/16x2)	0	0.9375	0	1	1	3
Rhenium (Re) (2x1/16x1)	0	0.9375	6	1	1	2
S.Steel Acid Etched (2x1/16x6)	0	0.9375	8	1	1	1
Canned 93% U235 Series C (2x1/16x8)	0	1	0	1	1	1
Polyethylene (White) (2x1/16x6)	0	1	8.11	1	1	1
Niobium - 12V (2x1/8x8)	0	1.0625	0	1	1	1
Polyethylene/Block Hi-Density (2x1/4x6)	0	1.0625	8.11	1	1	1
Canned 93% U235 Series F (2x1/8x8)	0	1.1875	0	1	1	1
Rhenium (Re) (2x0.031x12)	0	1.3125	0	1	1	1
Na Void Can (2x1/4x6) (detector?)	0	1.34375	0	1	1	1
Polyethylene/Block Hi-Density (2x1/4x6)	0	1.34375	8	1	1	1
Rhenium (Re) (2x0.031x12)	0	1.59375	0	1	1	1
Canned 93% U235 Series F (2x1/8x8)	0	1.625	0	1	1	1
Polyethylene (White) (2x11/32x6)	0	1.625	8.22	1	1	1
Niobium - 12V (2x1/8x8)	0	1.75	0	1	1	1
Canned 93% U235 Series D (2x1/16x4)	0	1.875	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol p, Drawer Master 0716						
Void (0.78075x2x0.75) (Am-Be source)	0	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0	0	0.75	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0	0	4.86	1	1	1
Polyethylene (White) (11/32x2x6)	0	0	8.97	1	1	1
Niobium - 12V (1/8x2x8)	0.0625	0	0.75	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.1875	0	0.75	1	1	1
Rhenium (Re) (0.031x2x12)	0.34375	0	0.75	1	1	1
Polyethylene (0.25x2x4)	0.37475	0	0.75	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	0.37475	0	8.75	1	1	1
Rhenium (Re) (0.031x2x12)	0.62475	0	0.75	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.65575	0	0.75	1	1	1
Polyethylene (White) (11/32x2x6)	0.65575	0	8.86	1	1	1
Niobium - 12V (1/8x2x8)	0.78075	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.90575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.9995	0	8.11	1	1	1
Niobium - 12V (1/8x2x8)	1.03075	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.15575	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.34325	0	0	1	1	1
Na Void Can (1/4x2x6) (detector)	1.37425	0	0	1	1	1
Na Void Frame (1/4x1x2)	1.37425	1	6	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	1.37425	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.62425	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.65575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.65575	0	8.22	1	1	1
Niobium - 12V (1/8x2x8)	1.78025	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	1.90525	0	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.86	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol q, Drawer Master 0718						
Canned 93% U235 Series D (1/16x2x4)	0	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	0	0	8.22	1	1	1
Niobium - 12V (1/8x2x8)	0.0625	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.1875	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	0.34375	0	0	1	1	1
Na Void Can (1/4x2x6) (detector)	0.37475	0	0	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0.37475	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	0.62475	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.65575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.65575	0	8.11	1	1	1
Niobium - 12V (1/8x2x8)	0.78075	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.90575	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.9995	0	8.11	1	1	1
Niobium - 12V (1/8x2x8)	1.03075	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.15575	0	0	1	1	1
Rhenium (Re) (0.031x2x12)	1.34325	0	0	1	1	1
Polyethylene (0.25x2x4)	1.37425	0	0	1	1	2
Polyethylene/Block Hi-Density (1/4x2x6)	1.37425	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.62425	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.65525	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	1.65525	0	8.22	1	1	1
Niobium - 12V (1/8x2x8)	1.78025	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	1.90525	0	0	1	1	2
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol r, Drawer Master 0721						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.0935	0	0	1	1	2
Polyethylene (White) (0.4002x2x6)	0.0935	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	2
Canned 93% U235 Series F (1/8x2x8)	0.3435	0	0	1	1	1
Stainless Steel (SSTX) (1/16x2x2)	0.4685	0	0	1	1	4
Polyethylene (White) (11/32x2x6)	0.4937	0	8.22	1	1	1
Canned 93% U235 Series C (1/16x2x8)	0.531	0	0	1	1	1
Canned 93% U235 Series I (1/8x2x4)	0.5935	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	0.8375	0	0	1	1	1
Na Void Can (1/4x2x6) (detector)	0.8685	0	0	1	1	1
Na Void Frame (1/4x1x2)	0.8685	1	6	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0.8685	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.1185	0	0	1	1	1
Canned 93% U235 Series I (1/8x2x4)	1.1495	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	1.1495	0	8.22	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.2745	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	1.3995	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	1.4933	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	1.5245	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.712	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.8935	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9245	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9245	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol s, Drawer Master 0722						
Canned 93% U235 Series C (1/16x2x8)	0	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	0	0	8.11	1	1	1
Rhenium (Re) (0.031x2x12)	0.0625	0	0	1	1	1
Canned 93% U235 Series D (1/16x2x4)	0.0935	0	0	1	1	2
Polyethylene (White) (0.4002x2x6)	0.0935	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	0.156	0	0	1	1	2
Canned 93% U235 Series F (1/8x2x8)	0.3435	0	0	1	1	1
Canned 93% U235 Series F (1/8x2x8)	0.4685	0	0	1	1	1
Polyethylene (White) (11/32x2x6)	0.4937	0	8.22	1	1	1
Canned 93% U235 Series I (1/8x2x4)	0.5935	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	0.8375	0	0	1	1	1
Na Void Can (1/4x2x6) (detector)	0.8685	0	0	1	1	1
Na Void Frame (1/4x1x2)	0.8685	1	6	1	1	1
Polyethylene/Block Hi-Density (1/4x2x6)	0.8685	0	8	1	1	1
Rhenium (Re) (0.031x2x12)	1.1185	0	0	1	1	1
Canned 93% U235 Series I (1/8x2x4)	1.1495	0	0	1	1	2
Polyethylene (White) (11/32x2x6)	1.1495	0	8.22	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.2745	0	0	1	1	1
Stainless Steel (SSTX) (1/16x2x2)	1.337	0	0	1	1	4
Canned 93% U235 Series F (1/8x2x8)	1.3995	0	0	1	1	1
Polyethylene (White) (0.4002x2x6)	1.4933	0	8.22	1	1	1
Polyethylene (0.1875x2x4)	1.5245	0	0	1	1	2
Canned 93% U235 Series D (1/16x2x4)	1.712	0	0	1	1	2
Rhenium (Re) (0.031x2x12)	1.8935	0	0	1	1	1
Canned 93% U235 Series C (1/16x2x8)	1.9245	0	0	1	1	1
Polyethylene (White) (1/16x2x6)	1.9245	0	8.11	1	1	1
Retainer Spring (2x2x1/16)	0	0	14.22	1	1	1
(back) Drawer Master 1800						
Borated Poly (2x2x2)	0	0	10.778	1	1	1
(back) Drawer Master 1873						
Borated Poly (1 1/2x2x2)	0	0	10.778	1	1	1
PSR Guide Tube (1/2x2x1)	1.5	0	0	1	1	1
PSR Blade (3/8x1.938x27.341)	1.5	0	6.348	1	1	1
Identification Symbol u, Drawer Master 1909						
Borated Poly (2x2x2)	0	0	34.03	1	1	1
Identification Symbol v, Drawer Master 1910						
Lithium Hydride (2x2x24)	0	0	0	1	1	1
Borated Poly (2x1x12)	0	0	24	1	1	1
Borated Poly (2x1x12)	0	1	24	1	1	1
(back) Drawer Master 2908						
Borated Poly (2x2x2)	0	0	21.036	1	1	1

Table 4 (cont'd). Drawer Master Plate Loading Descriptions.

Plate ID (size in inches)	Starting X Location	Starting Y Location	Starting Z Location	X#	Y#	Z#
Identification Symbol x, Drawer Master 2909						
Borated Poly (2x2x2)	0	0	44.288	1	1	1
Identification Symbol y, Drawer Master 2910						
Lithium Hydride (2x2x24)	0	0	0	1	1	1
Borated Poly (2x1x12)	0	0	24	1	1	1
Borated Poly (2x1x12)	0	0	36	1	1	1
Borated Poly (2x1x12)	0	1	24	1	1	1
Borated Poly (2x1x12)	0	1	36	1	1	1
(back) Drawer Master 2999						
PSR Guide Tube (1/2x2x1)	0	0	0	1	1	23
PSR Blade (3/8x1.938x27.341)	0	0	6.348	1	1	1
Borated Poly (1 1/2x2x2)	0.5	0	21.036	1	1	1
(back) Drawer Master 0191						
Stainless Steel (SST) (1/4x2x1)	0.92225	0	0	1	1	7

1.2.3 Characteristics of the Assembly Regions - Figures 6 and 7 are X-Y and X-Z midplane views showing the ZPPR-20D assembly regions. Figure 6 shows how the room return shield forms the outer boundary of the plate loading, and how the polyethylene serves as an outer reflector layer, essentially surrounding the core and BeO radial reflector. Figure 7 shows the mockup control rods, as well as the various radial layers surrounding the core.

These two figures help clarify the roles of the drawers in the matrix loading presented in Tables 1 through 4. Consider Drawer Master 0101 once more. According to Tables 1 and 3, this is the master in matrix position 150-50. Figure 7 shows that position to represent the core region. Figure 6 shows that axially behind the core region is a polyethylene region, followed by a void region. These regions are apparent in both Figure 5 and the first section of Table 4. The remainder of the axial void region and the axial shield region in this matrix position are in the back drawer master, 1800.

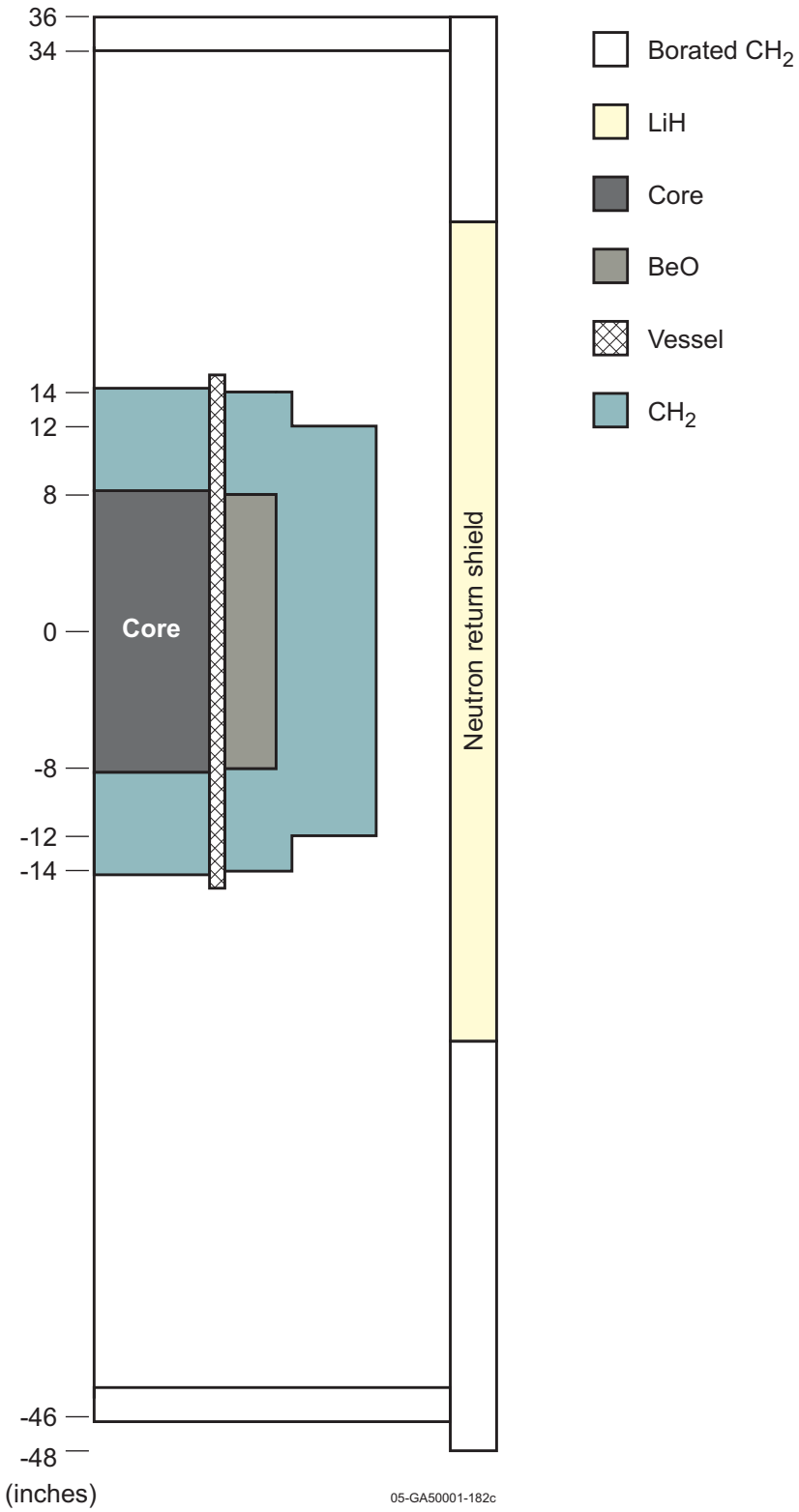


Figure 6. X-Z View of ZPPR-20D Assembly Regions.

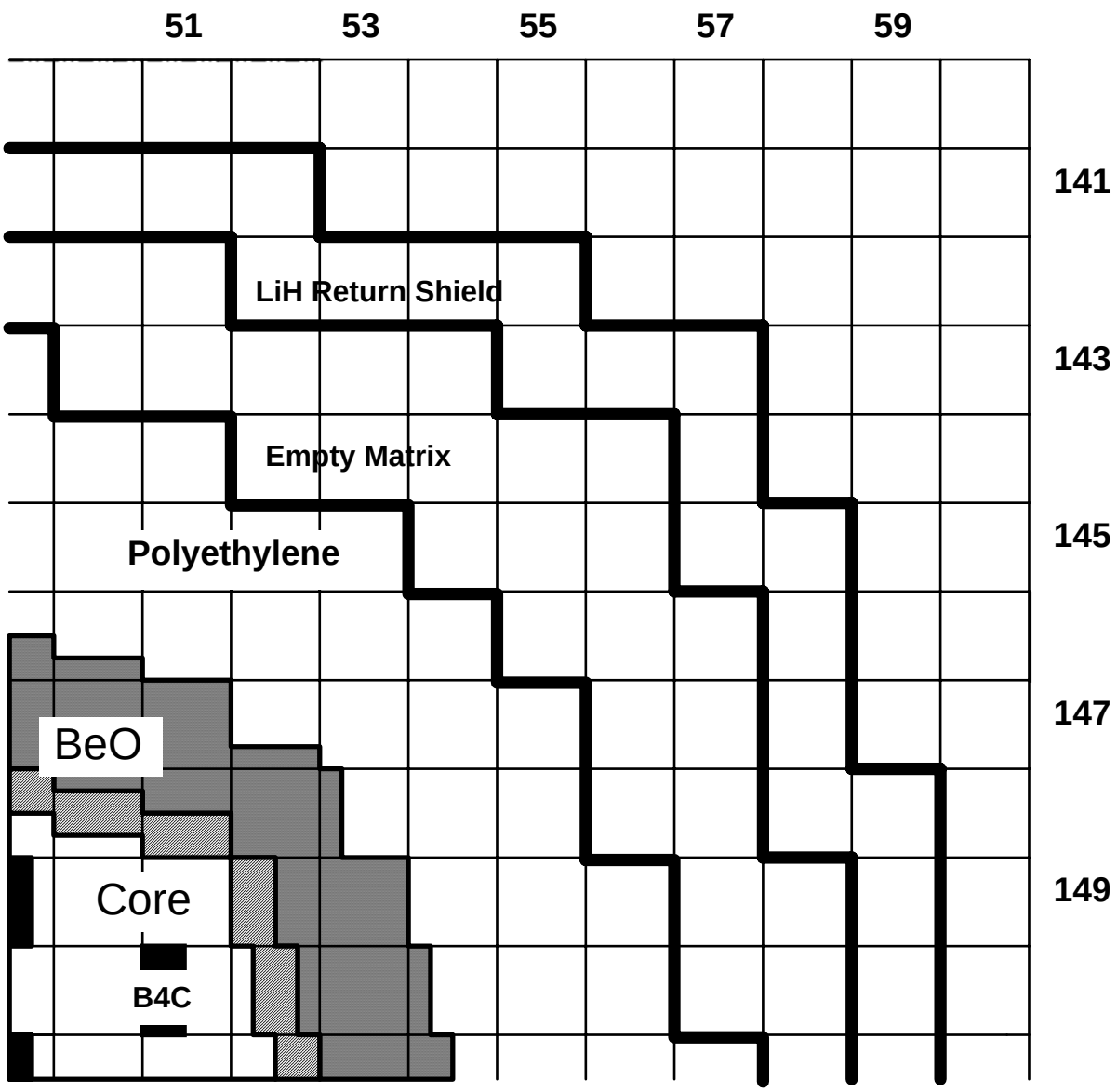


Figure 7. X-Y View of ZPPR-20D Assembly Regions.

Now, with a relatively simple case in hand, consider the core edge position 151-52 and its symmetric counterparts 151-46, 148-49 and 154-49 in Figure 7. These positions have the core region on the inboard side of the drawer loading and the reactor vessel region on the outboard side. This is a situation where reflection or rotation of the plate loading in 151-52 is needed to get the plate loadings for the other positions. Table 1 indicates that the symbols for the four drawer masters are F, G, m and n, respectively. Table 3 indicates that the drawer masters are 0203, 0204, 0713 and 0714, respectively. Looking at drawer master 0203 in Table 4, it can be seen that plates for core materials are in the lower X side of the drawer and reactor vessel plate materials are in the upper X side, consistent with Figure 7. Comparing drawer master 0204 in Table 4, its loading is seen to be reflected about the X midplane of the drawer (but with a uranium column modification to accommodate thermocouples in master 0204). These two drawer masters have the normal plate orientation; the smallest plate dimension is in the X direction, the Y dimension is typically 2 inches and the longest dimension is in the Z direction. The next two drawer masters have a rotated drawer loading. There the plates are rotated 90° about the Z axis so that the X dimension is typically 2 inches and the Y direction has the smallest dimension. Drawer master 0713 can be seen in Table 4 to have rotated plates and to have the core plates below (lower starting Y values) and the vessel plates above, consistent with Figure 7. Drawer master 0714 can be seen in Table 4 to be essentially the reflection of Drawer Master 0713 about the Y midplane, as it should be.

Any readers who have persisted this far are indeed dedicated. These readers should understand the loading well enough to be able to write a computer program to process the information in the tables. But there is no need, since programs already exist to do this. These readers should also understand that to process the information by hand would be an overwhelming endeavor.

1.3 Description of Material Data

The composition data were taken from working documents that are referred to informally as “hot constants memos”. The original documentation on most of the inventory used in ZPPR has been lost, but the hot constants memos are available. These memos give average composition by batch or lot, but not uncertainties. The issue of estimating composition uncertainties is addressed in Section 2. The ZPPR (Zero Power Physics Reactor) hot constants memo[a] was used as a first source for all materials because it includes the most complete and accurate description of trace elements.

Five types of stainless-steel-clad enriched uranium fuel plates were used in Assembly 20D Loading 129. Uranium and cladding masses and uranium dimensions for these plates are given in Tables 5 and 6. As seen from Tables 5 and 6, there are small differences in relative uranium and stainless steel isotopics between the differing plate sizes. As noted in Section 1.2.2, the cladding material thickness on the X and Y faces of the uranium plates is 0.005 inches (0.127 mm), the finished plate Y dimension is 2.010 inches, but the finished plate X dimension is 0.015 greater than the uranium width (finished plate is 0.074 or 0.1365 inches). Each Z face has a 0.055-inch-thick (1.40 mm) porous end plug, making the finished plate length 0.110 inches longer than the nominal uranium length.

[a] T. S. Huntsman, ZPPR Materials Compositions, July 1983.

Table 5. Clad Enriched Uranium Plate Uranium Dimensions, Masses and Compositions.

Plate ID	Number Used	U Size (inches)	U Mass (g)	U Density (g/cc)[a]	^{234}U wt%	^{235}U wt.%	^{236}U wt.%	^{238}U wt.%
93% U235 Series C (1/16x2x8)	156	1/16x2x8	294.64	17.98	0.91	93.18	0.44	5.47
93% U235 Series D (1/16x2x4)	176	1/16x2x4	146.56	17.89	0.91	93.18	0.44	5.47
93% U235 Series F (1/8x2x8)	154	1/8x2x8	574.47	17.53	0.91	93.27	0.44	5.38
93% U235 Series G (1/8x2x6)	2	1/8x2x6	441.19	17.95	0.91	93.26	0.44	5.39
93% U235 Series I (1/8x2x4)	64	1/8x2x4	287.20	17.53	0.91	93.27	0.44	5.38

(a) Derived from mass and dimensions of the uranium.

Table 6. Clad Enriched Uranium Plate Cladding Masses and Compositions.

Plate ID	Mass (g)	Composition (wt.%)											
		C	N	Si	P	S	Cr	Mn	Fe	Ni	Co	Cu	Mo
93% U235 Series C (1/16x2x8)	21.79	0.06	0.07	0.61	0.03	0.01	18.44	1.55	70.28	8.48	0.06	0.08	0.32
93% U235 Series D (1/16x2x4)	11.52	0.05	0.07	0.63	0.03	0.03	18.39	1.46	69.97	8.79	0.06	0.08	0.44
93% U235 Series F (1/8x2x8)	23.37	0.06	0.07	0.62	0.03	0.02	18.41	1.50	70.10	8.66	0.06	0.08	0.39
93% U235 Series G (1/8x2x6)	18.48	0.05	0.07	0.63	0.03	0.02	18.39	1.46	69.97	8.79	0.06	0.08	0.44
93% U235 Series I (1/8x2x4)	13.12	0.05	0.07	0.64	0.04	0.03	18.34	1.39	69.70	9.05	0.06	0.08	0.55

There was one type of Kel-F coated enriched uranium fuel plate used in Assembly 20D Loading 129 for a total of four plates. Fuel mass, coating mass, outer dimensions, and composition for this plate are given in Tables 7 and 8. In addition, a note on drawer master plots with this material (Master 0204) says these plates were wrapped in aluminum foil.

Table 7. Kel-F Coated Enriched Uranium Plate Dimensions, Masses and Uranium Composition.

Plate ID	Nominal Size (inches)	U Mass (g)	U Density (g/cc)[a]	^{234}U wt.%	^{235}U wt.%	^{236}U wt.%	^{238}U wt.%	Kel-F Mass (g)
Enriched U93 (1/16x2x2)	0.0625x2x2	72.066	17.59	0.91	93.24	0.44	5.41	0.053

(a) Derived from mass and nominal dimensions

Table 8. Kel-F Composition (wt.%).

C	Cl	F	H
20.65	30.04	48.81	0.51

The weight percents for the Kel-F coating material are given in the ZPPR hot constants memo and are shown in Table 8. It can be seen that Kel-F is nearly hydrogen free.

Mass data for the steel-clad lithium hydride plate type used in the radial room return shield are given in Tables 9 and 10. The ^{6}Li/Li fraction is 6.38 wt.% (or 7.36 atom %). The nominal 2x2x24 inch dimensions are the outer dimensions of the clad plate. These plates were clad with 0.065 inch-thick carbon steel. The smeared thickness of the cladding at one end of the plates is 0.125 inches due to an indentation. Thus, the dimensions of the LiH are 1.87 x 1.87 x 23.81 inches. The plates were loaded with the indentation farthest from the matrix interface.

Table 9. Clad Lithium Hydride Plate Dimensions, LiH Mass and Composition.

Plate ID	Number	LiH (g)	Composition, wt.%							
			H	^{6}Li	^{7}Li	Na	Mg	Al	K	Ca
Lithium Hydride (2x2x24)	160	632.191	12.655	5.566	81.724	0.023	<0.001	0.001	0.005	0.024

Table 10. Clad Lithium Hydride Plate Cladding Mass and Composition.

Plate ID	Clad Mass (g)	Composition, wt%									
		C	Na	Mg	Al	P	S	K	Ca	Mn	Fe
Lithium Hydride (2x2x24)	1474.46	0.16	0.01	0.0002	0.0004	0.04	0.05	0.002	0.01	0.54	99.187

Masses for the niobium plates are given in Table 11. The composition is listed in the hot constants memo as 100% Nb for all of the plate types in the table except the 1/8x2x8 type. That material is 99 wt.% Nb and 1 wt.% Zr. The niobium plates were used to simulate the fuel cladding material and the reactor vessel.

Table 11. Niobium Plate Dimensions and Masses.

Plate ID	Number Used	Mass (g)	Density (g/cc)[(a)]
Nb (1/8x2x3)	240	100.10	8.14
Nb (1/8x2x2)	187	68.16	8.32
Nb (1/8x2x1)	76	32.73	7.99
Nb (1/8x2x8)	128	276.245	8.34

(a) Derived from mass and nominal dimensions

Shown in Table 12 are the dimensions, masses, and inferred densities of the rhenium (Re) plates. (As mentioned earlier, rhenium was used as a fuel pin liner and as a liner on the inside of the vessel to keep the reactor subcritical in the event of an accident.) As seen from the table, the density of a

0.031-inch plate is larger than the 1/16-inch plate density. In fact, the density of the 0.031-inch plate is larger than the theoretical density for rhenium (21.02 g/cc); clearly, either the mass or the plate dimensions are incorrect. Upon investigation of the procurement records for these plates, it was observed that bundles of these plates were actually weighed and the weight of a single plate was determined from the average of the bundle weights. Therefore, the plate mass given in Table 12 is correct and the plate must be larger than the nominal values in one or more of the dimensions. These plates are not available now to be measured. The volume must be increased by 5% to match the theoretical density and increased by 10% to match the density of the other Re plate types. A 5% increase in length is 0.6 inches, which seems too large to go unnoticed. It is more plausible to assume that the nominal 2 inch height is 5% (0.1 inches) too small and/or that the nominal 0.031 inch thickness is 5% (0.0016 inches) too small. Making this increase to one of these dimensions would give the minimum necessary density reduction. Increasing both of them would give a density comparable to that of the other plates.

Table 12. Rhenium Plate Dimensions and Masses.

Plate Title	Number Used	Mass (g)	Density (g/cc)[(a)]
Re (1/16x2x3)	4	122.48	19.93
Re (1/16x2x2)	114	81.52	19.90
Re (1/16x2x1)	80	40.76	19.90
Re (0.031x2x12)	204	270.08	22.15

(a) Derived from mass and nominal dimensions

Masses for the Kel-F coated beryllium oxide (BeO) plates used in the mockup control rod followers and the radial reflector are given in Tables 13. The BeO is 63.97 wt.% oxygen and 36.03 wt.% beryllium. The element weight percents for Kel-F are given in Table 8.

Table 13. Beryllium Oxide Plate Dimensions and Masses.

Plate Title	Number Used	BeO Mass (g)	BeO Density (g/cc)[(a)]	Kel-F Mass (g)
BeO (1/8x2x2)	192	22.62	2.76	0.10
BeO (1/8x2x3)	384	33.92	2.76	0.15
BeO (1x2x5)	120	472.54	2.88	0.40
BeO (1x2x3)	120	283.57	2.88	0.25
BeO (1x2x2)	51	188.75	2.88	0.20

(a) Derived from mass and nominal dimensions

The dimensions and composition of the borated polyethylene blocks, which were used in the room return shields, are given in Table 14. Boric acid (H_3BO_3) was added to polyethylene to obtain borated polyethylene. Natural boron (18.4 wt.% ^{10}B) was used. These blocks are not clad.

Table 14. Borated Polyethylene Plate Dimensions, Masses and Compositions.

Plate ID	Borated Poly (1 1/2x2x2)	Borated Poly (2x2x2)	Borated Poly (1x2x12)
Number Used	2	576	480
Mass (g)	91.3	122.1	381.3
Density (g/cc) [(a)]	0.93	0.93	0.97
Element or Isotope	wt.%	wt.%	wt.%
H	11.600	11.600	11.600
^{10}B	0.916	0.916	0.920
^{11}B	4.084	4.084	4.080
C	61.200	61.200	61.200
O	22.200	22.200	22.200

(a) Derived from mass and nominal dimensions

Masses and compositions for the enriched boron carbide (B_4C) plates, which were used in the mockup control rods, and for the "meat" of the PSR blade are given in Table 15. The 1/8x1x2 was the plate size used predominantly. The boron is 89.9% wt.% ^{10}B in the 1/4-inch plates and 91.5 wt.% ^{10}B in the 1/8-inch plates. For the 1/4-inch plates, the weight percents sum essentially to 100 but impurities are included with the carbon. For the 1/8-inch plate, the weight percents only sum to 99.15 because impurities other than N and O are not included. For the PSR blade, the boron is 90.0% ^{10}B and the B_4C impurities other than N and O are only 0.04% of the total mass.

The PSR blade has stainless steel cladding. The wall thickness is 0.125 inches at the front and 0.032 inches on the top, bottom and sides. The stainless steel mass is 531.2 g (over the 27.341 inch total length) and the composition is nearly identical to that of the Na void cans, which is given below. There are other blade components behind what has been described here but they were too far from the core, at any blade insertion, to be of any neutronics consequence.

Table 15. Boron Carbide Plate Dimensions, Masses and Compositions.

Plate ID	Enriched B_4C (1/4x2x2)	Enriched B_4C (1/4x1x2)	Enriched B_4C (1/8x1x2)	Enriched B_4C in PSR blade 0.279x1.844x27.216
Number Used	28	14	724	2
Mass (g)	32.36	16.09	7.40	500.6
Density (g/cc)[(a)]	1.97	1.96	1.81	2.18
Element or Isotope	wt.%	wt.%	wt.%	
^{10}B	62.33	62.29	69.93	68.85
^{11}B	7.01	7.01	6.46	7.66
C	30.66[(b)]	30.66[(b)]	21.83	22.76
N	-[(b)]	-[(b)]	1.36	0.38
O	-[(b)]	-[(b)]	0.15	0.31

(a) Derived from mass and nominal dimensions.

(b) Impurities are included with the carbon.

As mentioned earlier, polyethylene (CH_2) plates were used to simulate water (H_2O). Masses for the polyethylene plates are given in Table 16. For all the plate types the composition is 85.71 wt% C and 14.29 wt% H.

Table 16. Polyethylene Plate Dimensions and Masses.

Plate ID	Number Used	Mass (g)	Density (g/cc)[(a)]
Polyethylene (0.1875x2x4)	160	22.735	0.925
Polyethylene (0.25x2x4)	134	31.455	0.960
Polyethylene (White) (1/16x2x6)	66	11.500	0.936
Polyethylene (White) (11/32x2x6)	150	62.338	0.922
Polyethylene (White) (0.4002x2x6)	48	74.338	0.945
Polyethylene (White) (1x2x6)	23	192.458	0.979
Polyethylene (White) (1/2x2x8)	32	123.406	0.941
Polyethylene (White) (1x2x8)	40	247.095	0.942
Polyethylene (White) (11/16x2x14)	26	291.350	0.924
Polyethylene Hi-Density (1/4x2x6)	118	47.904	0.974
Polyethylene Hi-Density (3/16x2x6)	12	34.103	0.925
Polyethylene Hi-Density (2x2x6)	88	374.000	0.951
Polyethylene Hi-Density (2x2x12)	184	733.200	0.932

(a) Derived from mass and nominal dimensions

Masses and compositions for the stainless-clad void cans and void-frames are given in Tables 17 and 18. The standard void cans are six-wall, closed, steel shells. The 1/4x2x6 and 1/2x2x6 cans used in this assembly were actually fission chambers containing a ^{235}U deposit of negligible mass. A signal cable, a high voltage cable and a gas tube went from the back of the can to the plenum area at the back of the matrix. These can be neglected. The other cans contain only air. (They are the empty counterparts of sodium-filled cans and are used to account for empty space or for voids such as those that would occur during coolant voiding.) A variant on the standard void can has no walls at the axial ends (open ends). The void-frames are sometimes referred to as "picture frames". They have no side walls, to reduce the steel mass, and were used as spacers between plates. The wall thickness is 0.019 inches for the void cans and 0.063 inches for the void-frames.

Table 17. Void Cans Dimensions, Masses and Compositions.

Plate ID	**Na Void Can (1/4x2x6)**	**Na Void Can (1/2x2x6)**	**Na Void Can (1/2x2x8)**	**Na Void Can Open End (1/2x2x9)**
Number Used	13	12	61	2
Mass (g)	56.382	61.567	80.009	87.123
Element	wt.%	wt.%	wt.%	wt.%
Fe	68.586	68.584	68.585	71.401
Cr	18.385	18.385	18.385	17.870
Ni	10.638	10.637	10.638	8.270
Mn	1.449	1.450	1.450	1.581
C	0.025	0.024	0.024	0.080
Si	0.619	0.620	0.620	0.368
Cu	0.121	0.120	0.120	0.150
S	0.000	0.000	0.000	0.010
P	0.014	0.015	0.015	0.020
Mo	0.020	0.019	0.020	0.250
Al	0.048	0.049	0.047	-
Co	0.030	0.031	0.031	-

Table 18. Void Frame Dimensions, Mass and Composition.

Plate ID	Na Void Frame (1/4x1x2)
Number Used	19
Mass (g)	8.934
Element	wt.%
Fe	70.036
Cr	18.155
Ni	9.257
Mn	1.880
C	0.067
Si	0.548
S	0.011
P	0.045

Several types of stainless steel plates were used in Assembly 20D. Dimensions and masses are given in Table 19.

Table 19. Stainless Steel Plates Dimensions, Masses and Compositions.

Plate ID	SST (1/4x2x1)	SSTX (1/16x2x2)	SSTX (1/16x2x3)	Acid Etched (1/16x2x6)
Number Used	28	50	18	26
Mass (g)	62.97	30.76	45.80	92.84
Element	wt.%	wt.%	wt.%	wt.%
Fe	70.29	69.07	69.07	68.59
Cr	18.54	18.27	18.27	19.00
Ni	8.63	10.91	10.91	9.25
Mn	1.52	1.43	1.43	2.00
C	0.05	0.02	0.02	0.08
Si	0.27	0.23	0.23	1.00
Cu	0.21	0.04	0.04	0.00
S	0.05	0.01	0.01	0.03
P	0.03	0.01	0.01	0.04
Mo	0.41	0.01	0.01	0.00

The plate loading in a 23.252-inch drawer was pushed towards the front of the drawer by the combination of a clip and a spring. The clip was made from a (nominal) 0.032 x 2 x 7.2 inch strip of stainless steel. This strip was bent into a U shape with a 2-inch base and.2.6-inch long legs, and a 1/4-inch-diameter steel button was welded to the outside of each leg. The clip was placed in the

drawer just behind the plates, with the legs facing back, and the buttons locked into two of the numerous holes in the drawer sides. A clip weighs 60.8 g. The exact composition is unknown but any one of the compositions from Table 19 could be used, since the mass is small and the location has low neutron importance. The clip is well approximated by three stainless steel plates: a 2 x 2 x 1/32 inch plate starting at (0, 0, Z), and two 1/32 x 2 x 2.6 inch plates, one starting at (0, 0, Z+0.031) and the other starting at (1.969, 0, Z+0.031), where Z is the end of the plate loading plus ~1/16 inch. A retainer spring was pressed into the small space between the plates and the clip. A spring has at least a dozen curved tines—narrow, curled fingers that can push on individual plate columns. The springs are made of carbon steel, with 99.03 wt.% Fe and 0.97% C. The dimensions and masses for the retainer springs used are given in Table 20.

Table 20. Retainer Spring Dimensions and Masses.

Plate ID	Retainer Spring (2x2x1/16)	Retainer Spring (narrow dr.) (1 1/2x2x1/16)
Number Used	172	2
Mass (g)	9.96	7.47

The following tables, which give the compositions of the remaining components, present the information in a different form from that in earlier tables. The mass of each element is shown, rather than the total mass, total density and weight percent by element. The drawer is broken down into various walls or wall combinations. The second column gives the nominal dimensions in the order X × Y × Z (following the convention described in Section 1.2.2). Note that the masses given for the sides plus bottom are per inch of length, not for the total length.

Table 21 has the steel drawer descriptions in this format. These drawers were made of Type 304 stainless steel. The normal and narrow drawers were perforated on *all* faces the way the drawer front is in Figure 3. The control drawers for this assembly had thinner walls and were not perforated.

Table 21. Stainless Steel Drawer Dimensions, Masses and Compositions.

Material ID	Nominal Size (inches)	Fe (g)	Cr (g)	Ni (g)	Mn (g)	Mo (g)	Cu (g)	Si (g)	Al (g)
Normal Drawer									
Side Walls[(a)] + Bottom[(a)]	2 x (0.031 x 2 x 1) + 2 x 0.031 x 1	7.478	1.980	0.996	0.146	0.014	0.013	0.047	---
Front	2 x 2 x 0.036	13.337	2.892	0.454	0.104	0.020	0.017	0.045	0.001
Back	2 x 2 x 0.072	12.809	3.391	1.706	0.251	0.024	0.022	0.080	---
Narrow (PSR) Drawer									
Side Walls[(a)] + Bottom[(a)]	2 x (0.031 x 2 x 1) + 1.5 x 0.031 x 1	6.861	1.817	0.914	0.134	0.013	0.012	0.043	---
Front	1.5 x 2 x 0.036	12.078	2.625	0.425	0.095	0.016	0.018	0.041	0.003
Back	1.5 x 2 x 0.072	11.486	3.041	1.530	0.225	0.021	0.020	0.072	---
DP Control Drawer									
Side Walls[(a)] + Bottom[(a)]	2 x (0.026 x 2 x 1) + 2 x 0.026 x 1	13.473	3.535	1.676	0.263	0.053	0.019	0.064	---
Front or Back	2 x 2 x 0.026	9.259	2.430	1.152	0.181	0.036	0.013	0.044	---

(a) Mass per inch of length.

The element masses per inch of length are given in Table 22 for the PSR guide tubes and for the matrix tubes. The matrix tube masses for the first inch (at the matrix interface) are much less than for the rest of the tube because there are large notches on the top and bottom walls that allow the matrix loading machine to grab the drawer and there is a small notch in each side wall, into which tabs on the side walls of some drawers can slide. Each matrix tube has 2.175x2.175x60 inch outside dimensions and a 0.040-inch-thick wall. Each PSR guide tube has a 0.5x2.0x48 inch outside dimensions and a 0.032-inch-thick wall.

Table 22. Guide Tube and Matrix Tube Compositions.

Component	Fe (g)	Cr (g)	Ni (g)	Mn (g)	Mo (g)	Cu (g)	C (g)	Si (g)
PSR Guide Tube	14.824	3.925	1.975	0.289	0.028	0.026	0.012	0.093
Matrix Tube[(a)]	18.94	4.900	2.234	0.461	0.063	0.087	0.018	0.152
Matrix Tube[(b)]	30.763	7.959	3.629	0.749	0.102	0.141	0.029	0.247

(a) Mass per inch of length for the first inch.
(b) Mass per inch of length beyond the first inch.

1.4 Supplemental Experimental Measurements

There were a number of additional integral measurements performed in support of the SP-100 space nuclear program in the ZPPR-20 series of assemblies. These experiments are listed in Table 23. As noted previously, the measurement of the subcritical configuration for ZPPR-20 Phase D is documented in SUB-HEU-MET-MIXED-001.

Table 23. Integral Measurements Performed in the SP-100 EMC Experiments in ZPPR-20

	A	**B**	**C**	**D**	**E**	**F**	**G**
Excess Reactivity or Subcriticality	X	X	X	X	X	X	X
Operational Measurements							
Gap Worth	X	X	-	X	-	-	-
Shim Rod Calibrations	X	X	X	X	-	-	-
Fuel Safety Rod Worths	X	X	-	X	-	-	-
Power Distributions							
Reaction Rates (^{235}U, DU foils)							
Radial and Axial Traverses	X	X	X	-	-	-	-
Gamma Heating							
^{7}LiF TLDs Radial and Axial Traverses	X	X	X	-	-	-	-
Material Worths							
Fuel, Li, Re, Nb, SST, B_4C, DU, BeO							
Radial and Axial Positions	-	X	-	-	-	-	-
Axial Fuel Expansion	-	X	-	-	-	-	-
Fuel, Re, and Nb							
Radial and Axial Positions	-	-	-	X	-	-	-
Control Worths							
Control Rod and Rod Bank Worths	X	X	X	X	-	X	-
Reflector Worths (2”, 3”, 6” Openings)	-	X	X	X	-	-	-
Rhenium Baffle Worth	-	X	-	-	-	-	-
Li Void Worth		X	-	-	-	-	-
Near Shield and Vacuum Vessel Worth		X	-	-	-	-	-
Flight Shield Worth	-	-	X	-	-	-	-
Neutron Noise Measurements	-	-	-	-	-	X	-

2.0 EVALUATION OF EXPERIMENTAL DATA

The reactivity effects of many of the uncertainties discussed below were quantified using a simplified TWODANT model of the benchmark (described in Section 3 and in Appendix B). The calculations used cross sections derived from ENDF/B-V data that were processed with Argonne cross section codes (see Appendix B). In some cases the Δk for the exact perturbation of interest was computed explicitly with a pair of TWODANT calculations. In cases where the change in k_{eff} might be too small to obtain accurately, the atom density changes were scaled up to give about a 10^{-4} change in k_{eff} and the resulting Δk was then scaled down to the actual perturbation. A 10^{-4} k_{eff} change is small enough to be a first-order perturbation, which justifies the scaling. The uncertainties are put in units of $\%\Delta k$ (100 times the change in k_{eff}). For consistency in accounting, they are always displayed to four decimal places, even though that level of precision is not always justified on physical grounds.

The uncertainties affecting criticality have been divided into three broad categories. They are the uncertainties associated with 1) measurement technique, 2) geometry, and 3) compositions. Each category is considered in turn and then the combined experimental uncertainty is presented. Each uncertainty estimate is presented herein in terms of one standard deviation.

2.1 Measurement Technique Uncertainties

The ZPPR-20D critical configuration was Loading 129. The measured reactivity was -0.04626 \$, with a quoted measurement uncertainty of ± 0.00044 \$. Calculated values of the relative delayed neutron fraction, $a_i=\beta_i/\beta$, and decay constant, λ_i, for each of six delayed neutron precursor families (i) were input to the inverse kinetics analysis but the sensitivity to errors in the calculated input is low. The quoted uncertainty of ~±1% in the measured excess reactivity is within the expected range of uncertainty (±1-3%) for such measurements.[a] This measurement did have an unusual feature—removal of delayed neutron precursors during the rod drop—but it appears to be covered adequately by the quote uncertainty; as described in Section 1.4.1 of SUB-HEU-MET-MIXED-01, two alternative treatments of the precursor removal agree within 0.3%.

The natural measurement unit, dollars, is related to k_{eff} by the expression, $\$ = (\Delta k_{eff}/k_{eff})/\beta_{eff}$. Accordingly, knowledge of β_{eff} is needed to express the measurement in terms of k_{eff}. β_{eff} was calculated using ENDF/B Version 5 neutron cross section and delayed neutron data, along with an RZ model of a ZPPR-20D. The RZ geometry requires that serious approximations be made to represent the 6 outer mockup control rods in ZPPR-20D. First, β_{eff} was calculated for Loading 136, which had all six rods fully inserted. These rods were smeared into a ring and the boron concentration there was reduced by 25%, in an attempt to compensate for the shelf shielding error caused by smearing. The resulting β_{eff} is 0.00647. Next, the model was modified to represent the withdrawal of two of the six rods for Loading 129 by further reducing the boron concentration by the ratio 2/6. The resulting β_{eff} is 0.00655. Using a β_{eff} value of 0.00655 yields an excess reactivity of -0.0303 $\%\Delta k$ (k=0.99970) with a measurement uncertainty of ±0.0003 $\%\Delta k$.

[a] S. G. Carpenter, "Measurement of Control Worths using ZPPR," *Proc. Specialists Mtg. On Control Rod Measurement Techniques, Reactivity Worth and Power Distribution*, Cadarache, France, April 21-22, 1976.

The calculated β_{eff} is uncertain and this contributes to the uncertainty. The uncertainty in β_{eff} due to uncertainties in cross sections and delayed neutron data was estimated to be 5% in evaluations of other ZPR and ZPPR assemblies. It seems prudent to augment that estimate in this case both because of the reactor modeling approximations described above and because the β_{eff} reported in Reference 1 is at variance with the recent result. Using the simple model, withdrawal of all six outer ring control rods changes β_{eff} by 6.3%. If this effect is uncertain by 30%, then the outer ring modeling issue could impact β_{eff} by 1.9%. Another modeling issue is the fact that the Westinghouse-generated ZPPR-20D β_{eff} value in Reference 1, which reportedly was calculated with the same basic cross section and delayed neutron data, is 2.2% lower than the recently calculated value. Based on these data, a β_{eff} modeling uncertainty of 2% is assumed. Adding this in quadrature with the estimated data uncertainty yields a total uncertainty of 5.4%. When applied to the reported reactivity, -0.04626 \$, the uncertainty in β_{eff} makes a contribution of ±0.0016 %Δk to the k_{eff} uncertainty.

All of the reported temperatures for the assembly were close to room temperature, with little deviation. The temperature within the ZPPR cell was maintained very constant (to within a quarter of a degree Fahrenheit)[a] and air was forced through the loaded matrix for cooling. The recorded average matrix temperature during the excess reactivity measurement is 18 °C. It is estimated that the uncertainty in the thermocouple calibration is 0.5 °C and the uncertainty in the core-average temperature obtained from the average of the several thermocouples is 1.0 °C. When added in quadrature, the combined uncertainty in the temperature is 1.1 °C. A rough estimate of the temperature coefficient of reactivity for ZPPR-20C was reported to be -0.003 %Δk/°C ± 50%, based on measurements in other ZPPR assemblies (Reference 1). Using this coefficient, the 1.1 °C temperature uncertainty translates to an uncertainty in k_{eff} of ±0.0033 %Δk. This value itself is 50% uncertain and, to account for this conservatively, the temperature uncertainty contribution was increased to ±0.0050 %Δk.

2.2 Geometry Uncertainties

Because the matrix halves were not perfectly aligned, there is a small gap of variable width between the two halves. When the ZPPR matrix was expanded to 14x14 ft (4.27x4.27 m) in 1977 the gap was measured at 62 uniformly distributed points.[b] With the halves in contact at one point, the maximum measured gap was 76 mils[c] (1.93 mm) and the average measured gap was 34 mils (0.86 mm). This relatively large nonuniformity was a result of the matrix being so large that the alignment plate, which was flat and perpendicular within 4 mils (0.10 mm), was not sufficiently strong to prevent deflections when the matrix tubes were stacked.

The fueled region of the ZPPR-20D core had a diameter of only 34 cm (or ~ 1 ft), which occupied a small portion of the matrix near the center. (Including other regions such as the vessel, beryllium oxide reflector, polyethylene reflector and lithium hydride radial neutron shield increased the assembly outer diameter to 104 cm.) The gap measurement data indicate that the average gap in this

[a] H. F. McFarlane, personal communication (1986).
[b] Private communication, P. B. McCarthy, Argonne National Laboratory, June 1977.
[c] 1 mil = 0.001 inch.

region is 44 ±3.4 mils (1.12 ±0.09 mm) when the halves contact at a point near the corner of the matrix. The gap could have been a few mils larger during the criticality measurement because contact could not always be maintained. The gap increment could be as large as 10 mils.[a] It is assumed that the increment is 5 ±2.5 mils. Then the total gap is 49 ±4.2 mils (1.24 ±0.11 mm).

The measured gap coefficient of reactivity for ZPPR-20D is-0.005 $/mil ±10%. The coefficient is very large because of the small core diameter. In comparison, the gap coefficient for the 125 cm-diameter Uranium/Iron Benchmark core (HEU-MET-FAST-035) was -0.001 $/mil. Inconsistencies among the ZPPR-20 gap worth measurements suggest that an appropriate uncertainty in the gap coefficient is 25%, rather than 10%. The β_{eff} mentioned above was used to convert the coefficient to k_{eff} units. The coefficient is -0.0033 %Δk/mil (-0.13 %Δk/mm) ± 25%, which when multiplied by the estimated total gap, 49 mils ±9%, yields a k_{eff} adjustment to zero gap of 0.1605 ±0.0426 %Δk.

Besides the interface gap, there are three issues regarding the exact location of materials. One is the possibility that the drawer fronts might not have been flush with the front edge of the matrix tubes. This component was minimized by assuring tabs on the drawer sides mated with notches in the matrix tubes. Care was taken to make the drawers flush with the matrix. Another issue is the possibility that the plate columns might not have been all the way forward against the drawer front. The spring at the back of the plate loading mitigated this problem but did not eliminate it. The difference in plate column lengths in the core region, even among uranium fuel columns, created the potential for axial movement of core material in ZPPR-20 assemblies. The potential was greatest in ZPPR-20D loadings because the core-region plates were unusually loosely packed in the X-direction. Several participants in the experiments, ranging from fissile material handlers to the experimental program coordinator, recently were asked about this problem. They all expressed a keen awareness of the problem. All indicated that extreme care was taken in loading and handling the drawers, and that this effort was successful in assuring that the plates were all the way to the front of the drawer. These two issues are assumed to be covered by the interface gap uncertainty.

The third issue is deviations from nominal dimensions for plates, drawers, and matrix tubes. Deviations in the dimensions that affect the precise X and Y positions of materials in the unit cell are too small to impact k_{eff} significantly. The dimensions that determine the volumes over which the material masses are distributed can have an effect. The plate lengths and drawer front thickness affect the axial positions of materials, similar to the interface gap effect. It is estimated that the collective uncertainty in these dimensions is ±10 mils (0.25 mm). Using the gap coefficient as a measure of the reactivity effect yields a k_{eff} uncertainty contribution of ±0.0330 %Δk. A deviation from the nominal average spacing between matrix tubes (discussed below) also would affect region volumes.

One final consideration with regard to axial-positioning uncertainties relates to the actual positions of the operational control rods. The fuel control rods were fully inserted for the benchmark configuration. Their position uncertainty is negligibly small compared to the uncertainty components discussed above, and is considered included in the measurement uncertainties provided in Section 2.1.

[a] Private communication, D. N. Olsen, Argonne National Laboratory, April 2001.

The PSR blades were withdrawn ~15 cm from the matrix interface in Loadings 129,implying that the B_4C blade was in the outer ~5 cm of the core in each half. and 136 that there is no significant measurement uncertainty associated with their positions. The axial positions of these two rods are estimated to be uncertain by 0.013 cm. Assuming, pessimistically, that both rod positions are off in the same direction, and using the measured shim rod calibrations, the reactivity uncertainty is 0.027 cents. Using β_{eff}=0.00655, this uncertainty is 0.0002%Δk.

The average matrix tube pitch was measured for the expanded ZPPR matrix to be in the range 2.173 to 2.175 inches.[a] All the models use 2.175 inches (5.5245 cm), which is consistent with decades of analysis and reporting for ZPPR assemblies. In order to maintain that consistency and allow a symmetric uncertainty, an adjustment to the measured excess reactivity is needed. A sensitivity coefficient was computed by increasing all radii by an amount equivalent to a 1 mil matrix pitch increase and reducing atom densities correspondingly to preserve masses. The result is -0.0507 %Δk/mil. The measured excess reactivity should be decreased by 0.0507 %Δk to adjust from the midpoint of the measured pitch range to 2.175 inch pitch. A standard deviation was taken to be 1 mil, making the pitch contribution to the k_{eff} uncertainty ±0.0507 %Δk.

An adjustment and an uncertainty are needed for room return of neutrons to the assembly. In previous ZPR and ZPPR benchmarks, a reasonably realistic estimate of the room return effect was obtained by expanding the TWODANT model to include the complete matrix tube array, the air plenum and finally a solid steel layer, which represents the surrounding steel structures. However, with the geometric complexity of this particular model and the large number of energy groups required to model the energy dependence, this was not practical. What was modeled was ~35% of the empty matrix followed by a 10 cm-thick solid steel layer, which represents the surrounding steel structures. This will give an upper bound to the room return effect because this additional "reflector" region is closer to the core. The resulting increase in the k_{eff} from TWODANT, 0.0001 %Δk, should be subtracted from the experimental k_{eff} to remove the effect of room return neutrons. This room return effect is relatively small because there are significant amounts of material (beryllium oxide, polyethylene, and lithium hydride) outside of the fueled region. This estimate is assumed to be uncertain by 100%, leading to a ±0.0001%Δk uncertainty contribution.

No significant geometric details were omitted from the assembly description. The special drawer master for the one core drawer per half that had a thermocouple is included in the as-built model. The other thermocouples in the assembly were the ones permanently installed at the junction of four matrix tubes in various locations in the matrix. The actual thermocouples, electrical leads and the materials they displace have too little mass to be significant. Similarly, the presence of detectors in several core drawers per half (drawers 0700 – 0722 are detector and counter drawers) is accounted for in the as-built model. The fissile material in the fission counters has a negligible mass, as do the wires.

Except for the PSR blade, the geometry-related uncertainty estimates given above were computed for the far subcritical configuration, Loading 136. Calculations show that the matrix pitch uncertainty for the essentially critical configuration, Loading 129, is only 3.6% higher than the

[a] Private communication, P. B. McCarthy, Argonne National Laboratory, June 1977.

corresponding subcritical configuration value. Since the matrix pitch uncertainty is the largest contributor to the geometric component of the overall uncertainty (see Table 25), and it is only 3.6% higher for the critical configuration, all of the geometry-related uncertainty estimates for the subcritical configuration will be assumed applicable to the critical configuration. This assumption is further supported by the knowledge that the other geometry uncertainties of note (matrix gap and plate dimensions) tend to vary with the size of the core, which for these two configurations are virtually unchanged.

2.3 Composition Uncertainties

As with the geometry uncertainties, most of the composition uncertainties derived for Loading 136 are applicable to Loading 129. This was confirmed by recalculating, for Loading 129, four of the largest contributors to the composition-related uncertainty for Loading 136. These calculations show the uranium mass uncertainty is 1.0% higher for Loading 129, the ^{235}U enrichment uncertainty is 1.7% higher, the rhenium mass uncertainty is 7.8% higher, and the overall beryllium oxide mass uncertainty (radial reflector plus MCR regions) is 0.5% lower. These changes are too small to be important. Consequently, the composition uncertainty section from SUB-HEU-MET-MIXED-01 is repeated below, with two modifications. One exception is the uncertainties associated with the mockup control rods, since the number inserted is different for the two loadings. The other exception is the uncertainty associated with the PSR control blades, since they were partially in the core only in Loading 129.

A bit of history about the materials inventory records is needed to appreciate the extent and limitations of the information available on the compositions used in ZPPR-20. The material inventory for Argonne's ZPR facilities was accumulated over a period of more than three decades, starting in the mid-1950s. The procurement acceptance process required thorough documentation on dimensions, masses, composition, etc. Information needed for day-to-day operations was extracted and compiled in working documents known informally as "hot constants memos." These memos give batch or lot average values of dimensions, masses, and weight percents of constituents but no uncertainties. The original documentation on some of the inventory used in ZPPR is no longer available but the hot constants documents are available. Consequently, indirect evidence and estimates were used to quantify many of the composition uncertainties.

The composition uncertainty for a component is treated in two parts: the uncertainty in total mass and the uncertainty in the weight percents of the constituents. Since these two sources of uncertainty are independent, they are added in quadrature. The reactivity effect of the composition uncertainty was determined by computing the change in the k_{eff} using the TWODANT model of the benchmark.

The details of the mass measurements are unknown. For the plates and most of the drawers it is assumed that measurements of masses were within 0.01 g of actual value for plates of up to tens of grams and within 1 g for larger plates weighing kilograms, i.e., the uncertainty in weighing was 0.1%. The working standard used to calibrate the scale is taken to have an uncertainty of 0.05%, which is a systematic uncertainty. The uncertainty in weighing could be statistical, but since no details of the process are available, we take the most pessimistic assumption and consider this to be a systematic uncertainty, making a total uncertainty in mass of 0.15%. The mass uncertainty assumptions made for other items are specified as needed.

The materials that could contribute in a significant way to the composition uncertainties in core regions are: the enriched-uranium fuel plates (most of which had a stainless steel coating), the rhenium plates, the lithium plates, and the niobium plates. The materials that could contribute in a significant way to the composition uncertainties in radial regions are: the niobium vessel, beryllium oxide plates (which had a Kel-F coating) in the reflector, and the polyethylene region outside of the reflector. Axially there are polyethylene and a borated polyethylene neuron shield. The materials in the seven inserted "SP-100 control rods" can also contribute composition uncertainties. (These "SP-100 control rods" are interspersed in the enriched uranium region.) Finally, there are numerous stainless steel components and the stainless steel matrix tubes, each can contribute to the overall compositional uncertainty. Masses and compositions for all of these materials are known reasonably well. The effect of uncertainties in the compositions of the structures beyond the matrix is covered in the room return modeling uncertainty (see Section 2.2).

The evidence currently available regarding the uncertainties in the isotopic weight percents for the enriched uranium is discussed in the ZPR-9/4 benchmark document, HEU-MET-FAST-060. A ±0.05 wt.% uncertainty estimate for the ^{235}U and ^{238}U content was derived from this evidence. The reactivity effect was calculated directly using a TWODANT model of the benchmark. The ^{235}U mass was increased by 0.05 wt.% of the enriched uranium mass and the ^{238}U mass was reduced correspondingly. The component uncertainty for ^{235}U is 0.0232 %Δk. Although these 0.05 wt.% uncertainty estimates are themselves uncertain, their computed reactivity effect was so small that a reasonable revision of the wt.% estimate clearly would also yield an unimportant reactivity effect. The component uncertainties of ^{234}U and ^{236}U were 0.0005 %Δk. When added in quadrature, the total enrichment uncertainty is ±0.0232 %Δk for Assembly D. As expected, the ^{235}U uncertainty dominates the total enrichment effect.

The impurities in the enriched uranium are also discussed in HEU-MET-FAST-060. The estimated total impurity level is 885 weight ppm, with the following distribution: C 340, Ni 174, Fe 125, Cu 65, Na 63, Ca 40, Si 35, Al 30, and Mn 13. It is estimated that a one-sigma uncertainty of 50% applies to this impurity model. The effect of the estimated enriched uranium impurities was calculated directly with TWODANT. Since the presence of the impurities was neglected in the reference model, the perturbation consisted of adding the nine impurities and reducing the enriched uranium to preserve mass. The computed effect is -0.0378 %Δk for Assembly 20D, implying that increasing the experimental k_{eff} values by this amounts would compensate for the omission of the impurities in the models. It should be noted that the computed effect of the initial impurities comes primarily from the reduction in uranium mass. (For example, in Assembly E the reduction in enriched uranium concentration has a -0.0455 %Δk effect. This is only slightly offset by the increase in moderation from the addition of the nine impurities, a +0.0067 %Δk effect.) The 50% uncertainty in the impurity level corresponds to ±0.0189 %Δk which must be added in quadrature with the other k_{eff} uncertainty components.

The effect of increasing the mass of the enriched uranium by the assumed 0.15% uncertainty was calculated directly with TWODANT. The corresponding uncertainty in k_{eff} is ±0.0704 %Δk.

Adding in quadrature the enrichment, impurity and mass uncertainty effects yields k_{eff} uncertainty contributions associated with the enriched uranium of ±0.0765 %Δk. The adjustment to the

experimental k_{eff} values for impurities is +0.0378 %Δk.

The uncertainty contribution from the cladding on the enriched uranium is lumped with other steel components below. Only four out of the more than 400 enriched uranium plates had a Kel-F coating rather than stainless steel cladding. The amount of Kel-F is small enough for its uncertainty to be ignored.

In core drawers, besides the enriched uranium plates, there were rhenium and niobium plates. The calculated 0.15% mass uncertainty effect is ±0.0103 %Δk for the rhenium.

There were two regions that contained niobium plates; one in the core drawers and one in the vessel region. The calculated 0.15% mass uncertainty effects are ±0.0007 %Δk for the niobium in the core region and ±0.0013 %Δk for niobium in the radial vessel region. Adding the niobium components in quadrature gives an overall niobium effect of ±0.0015 %Δk.

The niobium plate ID's Nb(1/8x2x3) and Nb(1/8x2x8), shown in Table 11, were tested for impurities and minor amounts of C, S, Cr, Fe, Ni, Zr, Ta, and W were found. The impurities that could have the largest effect in this mockup of a water immersion accident (softened neutron spectrum), Ta and W are at levels of only ~200 ppm. In the benchmark models, these minor amounts, except for the zirconium in the 8-inch plates, were ignored (see discussion before Table 11). Although the neglect of the impurities in the niobium plates represents a bias in the ZPPR-20 models, it was determined to be of negligible magnitude, ≈0.00005 Δk. Accordingly, it was elected for covenience to treat this impurity effect as an uncertainty in the benchmark. When the niobium impurity uncertainty, 0.0050 %Δk, is added in quadrature with the niobium mass uncertainty, ±0.0015 %Δk, the overall niobium uncertainty becomes 0.0052 %Δk. Note that the presence of the impurities in the niobium plates was not recognized when the other ZPPR-20 benchmarks (HEU-MET-FAST-075, SUB-HEU-MET-FAST-001 and SUB-HEU-MET-MIXED-001) were produced. Since the impurity effect is no larger in any of the earlier benchmarks than it is here, its negect is not significant.

Beryllium oxide plates occur in the radial reflector region and in the "SP-100 control rods" which represent inserted control rods present in SP-100 during launch. The assumed 0.15% uncertainty in the mass of the beryllium oxide plates was calculated to be ±0.0100 %Δk for the radial reflector region and ±0.0001 %Δk for the "SP-100 control rods". These plates are listed in the hot constants memo as being 100% beryllium oxide with a Kel-F coating. The effect of impurities was determined by adding 500 weight ppm with the following distribution: Si 250, Na 100, Al 50, Ca 50, and Fe 50.[a] This calculated impurity uncertainty is ±0.0016 %Δk for the radial reflector region and less than ±0.0001 %Δk for the "SP-100 control rods". The quadrature sum of the beryllium oxide mass and impurity uncertainty is ±0.0101 %Δk, with the largest contribution obtained from the beryllium oxide mass uncertainty in the radial reflector region.

[a] Information on Grade A Beryllium oxide from National Beryllia Corporation (supplier of beryllium compounds to ANL-W).

There was a Kel-F coating on all the beryllium oxide plates. It is assumed, pessimistically, that 10% of the coating could have been lost from these plates. The effect of removing all the Kel-F from the TWODANT model was computed to be 0.0414 %Δk for the beryllium oxide plates, so the Kel-F uncertainty is ±0.0041 %Δk for beryllium oxide. Because it was thought that the uncertainty effect of the Kel-F removal would be small, separate contributions were not calculated for the beryllium oxide in the radial reflector and in the "SP-100 control rods". For convenience, these Kel-F mass uncertainties are not treated as a one-sided uncertainty.

There are core, radial, and axial regions where polyethylene is present. The calculated 0.15% mass uncertainty effects are ±0.0002 %Δk for the polyethylene in the core region, ±0.0061 %Δk for the radial region, and ±0.0002 %Δk for the axial region. (This axial region value also includes the contribution from the borated polyethylene axial neutron shield. The ^{10}B weight fraction in the natural boron in the borated polyethylene blocks cannot be uncertain enough to have a significant effect on k_{eff}.) Adding the polyethylene components in quadrature gives an overall polyethylene effect of ±0.0061 %Δk. This polyethylene mass uncertainty is dominated by radial polyethylene regions. Impurities in the polyethylene were not considered since information from the supplier indicated only materials for pure polyethylene.

The assumed 0.15% uncertainty in the mass of the lithium hydride, which comprised most of the room return shield outside of the radial polyethylene, was calculated to have a ±0.0001 %Δk effect. The only way the lithium hydride could make a significant contribution to the k_{eff} uncertainty would be if the ^{6}Li isotopic fraction of the natural lithium in these plates were very uncertain, and that is not the case.

The "SP-100 control rods" mentioned above contained enriched boron carbide. (Recall, these "control rods" represent SP-100 control rods inserted into the core during launch.) The assumed 0.15% uncertainty in the mass of the 90% enriched boron carbide (B_4C) plates in these "control rods" was calculated to be ±0.0149 %Δk for Loading 136. Since only five of the seven mockup control rods were inserted in Loading 129, the Loading 136 result was scaled by 5/7, yielding 0.0106 %Δk.

The ^{10}B component of the boron carbide plate composition is overwhelmingly more important than all the other components combined. Consequently, the composition uncertainty is determined by the uncertainty in the ^{10}B mass. A specification document for one of the B_4C plate types was examined and is assumed to be representative of all the types. The maximum allowable sample 2σ standard deviation for the boron concentration was specified as ±1%. With a population of more than 500 plates, this implies a standard deviation for the mean boron concentration of ~0.02% The uncertainty in the enrichment of this boron was not specified other than to say that the boric acid source material's enrichment would be within a 1% range. Taking the spread about the mean of this range to be ±2σ, implies a 0.25% 1σ uncertainty in the ^{10}B enrichment. At 90% enrichment, this contributes 0.225% to the ^{10}B mass uncertainty. Adding 0.02% and 0.225% in quadrature gives 0.226% ^{10}B mass uncertainty in B_4C plates with known total mass, i.e., the wt% uncertainty. We can scale the result from the previous paragraph to get the k_{eff} uncertainty contribution from the wt% uncertainty. The result is 0.0106*0.226/0.15 = ±0.0160 %Δk.

Adding in quadrature the mass and composition weight percent uncertainty effects yields k_{eff}

uncertainty contributions associated with the enriched boron carbide of ±0.0192 %Δk.

There is also 90% enriched boron carbide in the PSR blades, which were partially in the core in Loading 129. The composition uncertainties were treated the same way as for the mockup control rod boron, except that the rod calibration measurements were used to translate mass uncertainty into reactivity. The calibrations indicate that a 0.15% mass uncertainty corresponds to 0.024 cents, which is 0.00016 %Δk. That should be added in quadrature with 0.00016*0.226/0.15=0.00024 %Δk. The resulting total composition uncertainty is 0.0003 %Δk.

The steel components in this assembly were the steel plates, void cans, spacers, cladding on the enriched uranium and lithium hydride plates, drawers and matrix tubes. It is predominantly Type 304 stainless steel; the only exception is the cladding for the lithium hydride, which is carbon steel. Rigorously, the uncertainties for all the components are uncorrelated and therefore should be evaluated separately. However, the effects are so small that, as a convenience and a conservative approximation, all the steel was treated as completely correlated when computing the weight percent uncertainties. When computing the effect of mass uncertainty, only the matrix tubes were treated separately (because they have a much larger mass uncertainty than any of the other components).

The estimated weight percent uncertainty data for the stainless steel are presented in Table 24. A representative value of the weight percent is shown in parentheses. The uncertainty for each of the major elements was taken (conservatively) to be 0.2 wt.%. The uncertainty for Mn was taken to be 0.15 wt.% (or 10% of nominal value) based on the variation of batch assays given in the hot constants memos. The uncertainties for the remaining minor elements were assumed to be one half of the last significant figure provided in the hot constants memos, due to round-off error. The uncertainty for the sum of trace elements was assumed to be 10% of the typical wt.%. Since the carbon steel was a small fraction of the total steel in the assembly and was in low importance regions, its composition difference from that of stainless steel was ignored when computing composition uncertainties.

Table 24. Stainless Steel Weight Percent Uncertainty Data.

Element	(Nominal Value) ± Uncertainty , wt.%
Fe	(70) ± 0.2
Cr	(18) ± 0.2
Ni	(9.5) ± 0.2
Mn	(1.5) ± 0.15
Mo	(0.3) ± 0.005
Si	(0.3) ± 0.005
C	(0.05) ± 0.005
Cu+S+P	(0.35) ± 0.035

The k_{eff} uncertainty contributions due to the weight percent uncertainty for the main constituents of the steel were computed by perturbing the reference TWODANT model of ZPPR-20D, using the

data in Table 24. Consider chromium as an example. The reference model Cr atom density in each region was assumed to correspond to the nominal wt% given in Table 24, i.e., 18 wt.%. This was increased by 1 wt%, i.e., to 19%, and the Fe atom density was decreased to preserve mass exactly. The calculated effect, 0.0051 %Δk, was scaled by a factor of 0.2, the uncertainty given in Table 24, yielding ±0.0010 %Δk as the Cr uncertainty contribution. The same process was used for Ni and Mn, yielding uncertainty contributions of ±0.0007 %Δk and ±0.0003 %Δk, respectively. The process for Fe was the same except that mass was preserved by reducing the reference atom densities of Cr, Ni, Mn, Mo, Si and C in proportion to the nominal weight percents in Table 24. The effect of changing iron by 0.2 wt% is ±0.0054 %Δk. Rather than calculate what obviously are extremely small contributions from Si, C and the trace elements, it was assumed conservatively that, collectively, they are no larger than the largest contribution described above, i.e., ±0.0054 %Δk. Adding all these contributions in quadrature yields a combined uncertainty of ±0.0077 %Δk for the steel composition.

It is estimated that the mass of the matrix tubes is uncertain by 2% and the masses of all the other steel components are uncertain by 0.15%. The calculated effect of changing the matrix tube mass by 2% is ±0.0104 %Δk. Treating all the other steel components collectively, the calculated effect of changing their mass by 0.15% is ±0.0001 %Δk. The quadrature sum of the mass uncertainty effects is ±0.0104 %Δk.

The quadrature sum all the steel uncertainty effects, weight percent and mass is ±0.0129 %Δk. It can be seen that the total effect is dominated by the matrix tube mass uncertainty.

A very small bias and uncertainty due to the presence of humidity in the air was derived for an earlier ZPR assembly. This was done by comparing calculations with the assembly gaps filled by dry air and by saturated air. The calculated effect, 0.0001% Δk, is assumed to apply to ZPPR-20D and will be included simply as an uncertainty.

2.4 Combined Uncertainties and Final Excess Reactivity

All of the uncertainties discussed in the previous sections are summarized in Table 25. The 0.0765 % uncertainty in uranium, in the composition category, is the most important uncertainty of all. The 0.0507 %Δk uncertainty in the matrix tube pitch, in the geometry category, is the other large uncertainty component. The measurement technique uncertainty is much smaller than the uncertainties in the geometry and composition categories. The quadrature sum of the geometry uncertainties, 0.0744 %Δk, is of the same order as the quadrature sum of the compositional uncertainties, 0.0816 %Δk. In the geometry category, three of the four components are comparable. In the composition category, the uranium uncertainty dominates.

The corrected measured reactivity of -7.612 $ converts to k_{eff} = 0.95251. The system is very subcritical. The estimated total uncertainty in Table 25, 0.3168 %Δk, is believed to be conservative but reasonable. Treating the uncertainty as if it were 1σ of a normal distribution should be

Table 25. Summary of Uncertainties in the Experimental k_{eff}
for ZPPR Assembly 20D.

Source of Uncertainty	Uncertainty[a] in Reactivity, % Δk
Measurement Technique	
Data Reduction	0.0003
Dollars to Δk	0.0016
Temperature	0.0050
Measurement quadrature sum	0.0053
Geometry[b]	
Matrix Interface Gap	0.0426
Nominal Plate Dimensions	0.0330
Matrix Tube Pitch	0.0507
Room Return	0.0001
Geometry quadrature sum	0.0740
Composition[b]	
Uranium	0.0765
Rhenium	0.0103
Niobium	0.0052
Beryllium Oxide	0.0101
Kel-F	0.0041
Polyethylene	0.0061
Lithium hydride	0.0001
"Control" Boron Carbide	0.0192
PSR Boron Carbide	0.0003
Stainless Steel	0.0129
Humidity	0.0001
Composition quadrature sum	0.0817
Total	0.1104

(a) Each uncertainty estimate is one standard deviation.
(b) As noted in Sections 2.2 and 2.3, geometry and compositional uncertainties, except for boron carbide, are assumed unchanged from the subcritical 20D configuration.

acceptable for the purposes of the benchmark model. As discussed in Sections 2.2 and 2.3, this uncertainty covers the effects of simplifying adjustments to the experiment, such as removal of the matrix interface gap. The adjustments are addressed further in Section 3.5.

The critical configuration of ZPPR Assembly 20D has been determined to be an acceptable criticality-safety benchmark experiment.

3.0 BENCHMARK SPECIFICATIONS

3.1 Description of Model

Even the most casual perusal of Section 1 makes it clear that the ZPPR-20D Loading 129 is much too complicated to be a practical criticality-safety benchmark model without a great amount of simplification. Fortunately, it is possible to eliminate most of the complexity, yielding a relatively simple benchmark model, without losing any of the essential physics. Furthermore, this can be done without compromising the high accuracy of the experiment.

The simplified benchmark model of ZPPR-20D Loading 129 is much more complex than previous ZPR and ZPPR criticality safety benchmarks prepared for this handbook. There are several reasons for the increased complexity of the ZPPR-20D benchmark model. First, previous ZPR and ZPPR benchmark assemblies have been axially symmetric about the core midplane, i.e., the interface between the stationary and movable halves of the assembly. The ZPPR-20D assembly is slightly asymmetric about the core midplane. This lack of symmetry requires a number of extra geometric regions in the ZPPR-20D benchmark model.

Second, ZPPR-20D Loading 129 included seven simulated SP-100 control rods and followers in the core and plenums. These control rods cannot be eliminated or homogenized without severely distorting the physics of the benchmark model relative to the as-built model and the actual assembly. Inclusion of the control rods and followers adds a number of extra geometric regions to the core and plenums.

Third, all of the ZPPR-20 series of assemblies were very small. The neutron room return shield and the empty tubes in the ZPPR matrix were included in the benchmark model to avoid distorting the neutron leakage characteristics of the assembly.

Fourth, because of their relationship to SP-100 and space nuclear power, the ZPPR-20 series of assemblies are potentially of wider interest and use than previous ZPR and ZPPR benchmarks. It is possible that the ZPPR-20 models will be used for purposes beyond those normally associated with code validation for criticality safety purposes. For this reason very small asymmetries in composition and geometry between the stationary and movable halves of the ZPPR-20 assemblies were preserved in the benchmark models.

The benchmark model parameters were obtained by computing the transformation from the detailed as-built experiment model to the simpler benchmark model using the VIM continuous-energy Monte Carlo code.[a] Note that the term "transformation" will be used repeatedly through Section 3 and will, in all cases, refer to both simplification of the model from the as-built platewise heterogeneous experiment model to the homogeneous cylindrical benchmark model, and also correction of k_{eff} to account for these simplifications. For the ZPPR-20 Phase D assembly, the first step of the transformation was performed using the edits of the VIM eigenvalue calculation for the detailed "as-

[a] R. N. Blomquist, R. M. Lell and E. M. Gelbard, "VIM – A Continuous Energy Monte Carlo Code at ANL," A Review of the Theory and Application of Monte Carlo Methods, Proceedings of a Seminar-Workshop, Oak Ridge, TN, April 21-23, 1980, ORNL/RSIC-44, p. 31, August 1980.

built heterogeneous model to provide the volumes (and thereby the dimensions) and the regionwise homogeneous or smeared atom concentrations for the benchmark model. For this assembly both of the resultant VIM Monte Carlo models (i.e., as-built heterogeneous and homogeneous benchmark) were also converted or translated into MCNP Monte Carlo models. The second step of the transformation, i.e., determination of the appropriate k_{eff} correction for the simplified benchmark model, is obtained from the continuous-energy Monte Carlo calculations for the two ZPPR-20D models. The k_{eff} correction is simply the difference in k_{eff} between the two models.

The modeling of all the experimental detail was made tractable by the development of the BLDVIM computer code[a] to generate the VIM input file for the as-built model. BLDVIM reads an electronic database containing a description of the ZPPR plate and drawer inventory, the assembly drawer masters, and the matrix loading maps. The code and database were recently rewritten for UNIX-based workstations, at which time the values of Avogadro's number and the atomic masses were made to conform to the values recommended by the ICSBEP. The MCNP input for the as-built model of ZPPR-20D Loading 129 is provided in Appendix C.

The key features retained in the benchmark model are the region-averaged compositions, region volumes, and the global RZ geometry. The geometry is depicted in Figure 8. Superimposed on Figure 8 are the regional composition numbers (to be described later in Table 26 and Section 3.3). It should be noted that Figure 8 shows an RZ slice through the centerline of the model but does not show the seven simulated control rods in the core and plenums. These seven rods are included in the benchmark model; and therefore the benchmark model, though cylindrical in general appearance, is not truly an RZ model. The dimensions and positions of these seven rods are listed in Section 3.2 and shown graphically as mockup control rods $M_1 - M_7$ in Figure 9.

The radial dimensions of the benchmark model are determined by the total cross-sectional area of the matrix positions included in each region, i.e., radii of cylindrical boundaries conserve cross-sectional areas of the corresponding regions in the detailed model. Axial dimensions of each region conserve the region volume. Because of differences in plate heights and axial positions (which may vary between different matrix positions), the axial extent which conserves the region volume may be "non-physical", i.e., it may not correspond to any actual plate boundary. Masses of the constituents within these regions are then homogenized to produce the region-averaged compositions, thereby conserving material masses within each region. As previously noted, the VIM output edits for the as-built model provided the region-average compositions and volumes – from which the dimensions (radii and axial heights) of the benchmark model were derived.

For modeling purposes, the total volume/mass associated with the mockup control rods consisted of a) the volumes/masses of the B_4C plates, b) the volumes/masses of drawer bottoms, air gaps and matrix tubes above and below each mockup rod in the 2.175 in. high unit cell, c) the volumes/masses of drawer sides, air gaps, and matrix tube sides adjacent to the four mockup rods that were not centered in their drawers and (d) the volumes/masses of any drawer fronts adjacent to the mockup control rods. The concentration of each element or isotope in the mockup control rod composition was determined by dividing the total mass of that element or nuclide by the total volume of material

[a] R. W. Schaefer, R. D. McKnight and P. J. Collins, "Lessons Learned from Applying VIM to Fast Reactor Critical Experiments," *Proceedings of the Nuclear Criticality Technology Safety Workshop*, San Diego, CA, pp. 129-136, LA-13439-C (1995).

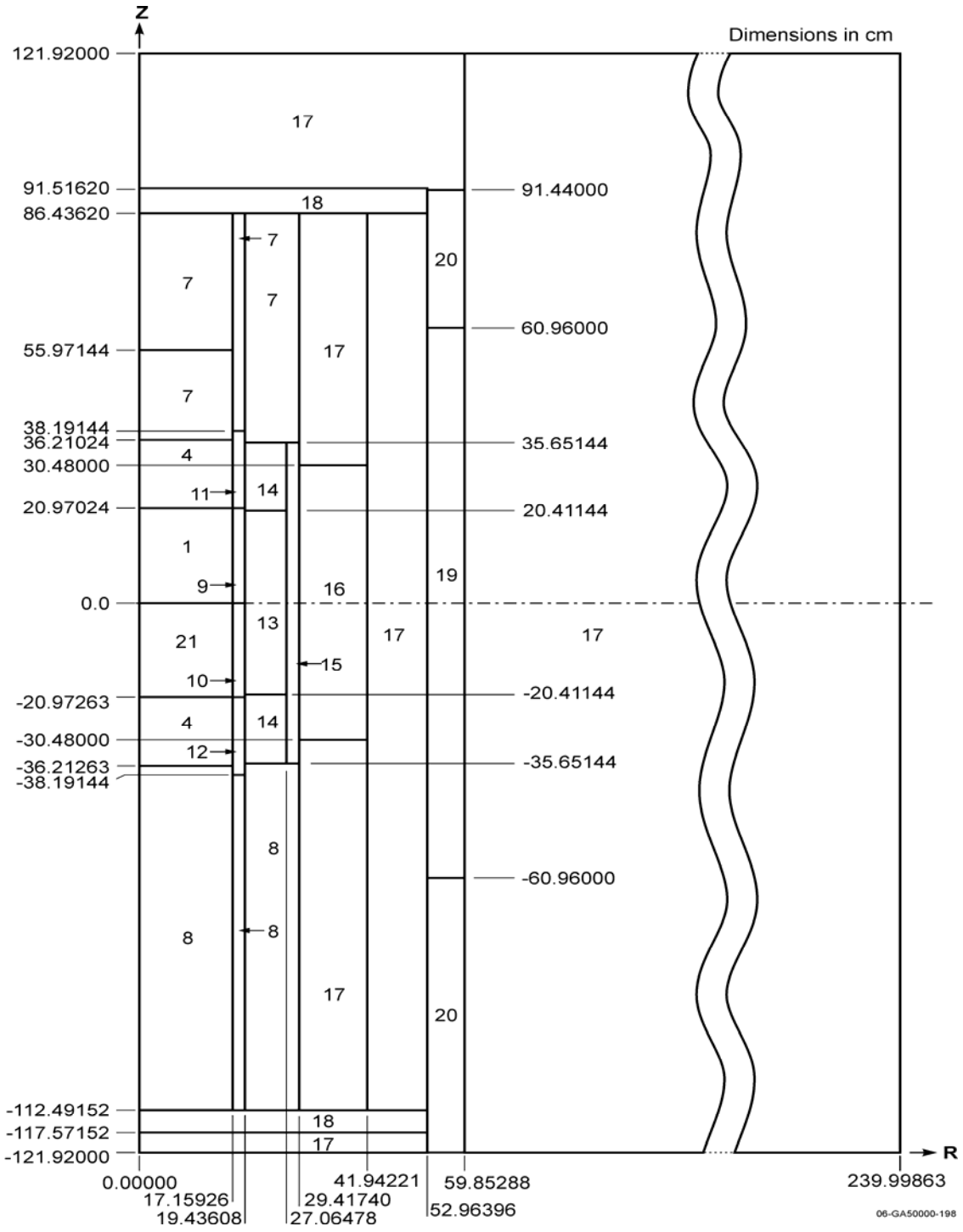


Figure 8. Benchmark-Model RZ Geometry for ZPPR-20D.

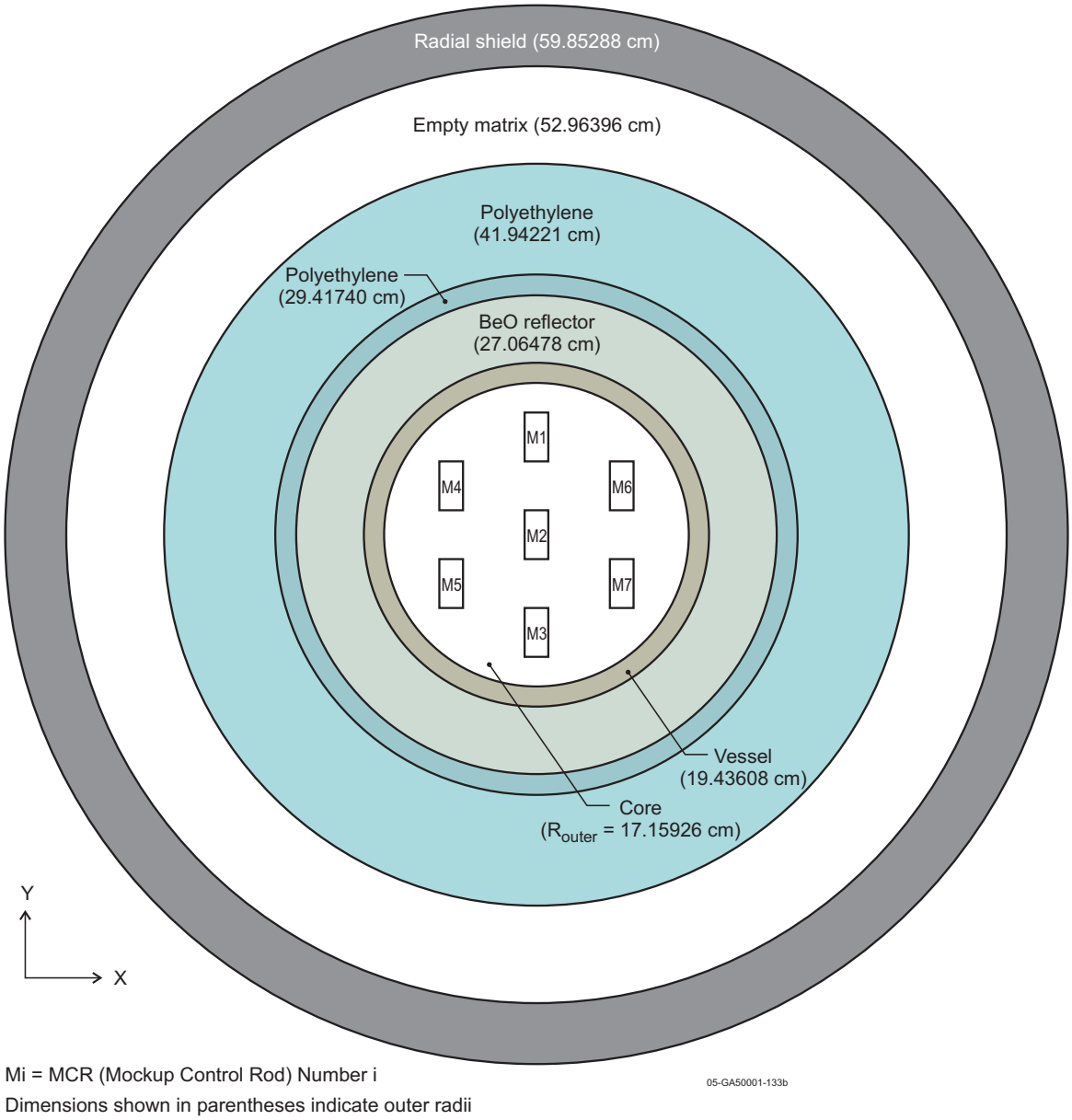


Figure 9. Benchmark-Model Midplane RZ Geometry for ZPPR-20D.

in (a), (b), (c) and (d) above. The same procedure was used to determine the volume and composition of the BeO followers.

The height of a mockup control rod in the model was 2.175 in., the height of the unit cell. The length of a mockup control rod was determined by the total length of B_4C plates plus the associated drawer front (16.072 in. for both matrix halves). The width of an in-core mockup control rod was determined by dividing the total volume of the five in-core mockup rods by (5 x 2.175 in. x 16.072 in.).

The height and length of each of the two in-core BeO rod followers were identical to the height and length of the in-core mockup control rods. The in-core followers were centered in their drawers, so each in-core follower had a width of 2.54 cm (1 in.) in the model.

The height and width of each section of mockup rod or follower in the plenum regions was chosen to match the height and width of the corresponding in-core region. The length of each section of mockup rod or follower in the plenum regions was the length of B_4C or BeO plates in the plenum region.

Obvious simplifications made were the smoothing of jagged boundaries in the XY plane into circular boundaries and elimination of the ZPPR control rod features axially beyond the plate loading. The simplification that yielded by far the greatest elimination of detail was the smearing of plates, drawers, and matrix tubes into cylindrical regions. The plate heterogeneity effects, which would require much effort to capture accurately in effective homogenized cross sections in a deterministic modeling approach, are included in the Monte Carlo-calculated Δk of the transformation.
This transformation process has been used previously with success. Loadings from the ZPPR-21 assembly were transformed into simple benchmarks for the criticality-safety assessment of Pu-U-Zr fuel treatment at Argonne's Fuel Conditioning Facility (FCF). Using sensitivity calculations and generalized-least-squares fitting, it was shown[a] that the results from this plate critical assembly are consistent with those from the homogeneous assemblies Jezebel and Godiva.

The homogeneous "cylindrical" benchmark model resulting from the transformation of the as-built platewise heterogeneous ZPPR-20D Loading 129 is defined in the remainder of the section.

3.2 Dimensions

Table 26 provides the dimensions of each of the regions in the model shown in Figure 8. Table 26 also lists the composition number for each of these regions. There is no clear way for Figure 8 and Table 26 to include the positions of the seven simulated SP-100 control rods, which nevertheless are explicitly part of the benchmark model.

The seven simulated SP-100 control rods can be seen in the midplane slice, Figure 9. Table 27 shows the minimum and maximum x- and y-boundaries of the seven simulated SP-100 control rods and followers in the ZPPR-20D core.

The B_4C poison sections of control rods M1 and M3 are withdrawn from the core, while the poison sections of the other rods essentially span the core height. This can be seen in Figure 10. The right-hand portion of this figure contains a sketch of a withdrawn rod, while the left-hand portion contains a sketch of an inserted rod. Compositions 2 and 3 are the B_4C poison, and compositions 5 and 23 are the BeO follower compositions. X- and z-dimensions, as well as composition numbers, are

[a] D. N. Olsen, P. J. Collins and S. G. Carpenter, "Experiments of IFR Fuel Criticality in ZPPR-21," *ICNC '91 International Conference on Criticality Safety*, Oxford, UK, September 9-13, 1991.

given in Figure 10. For the withdrawn rods, the x-direction width is partitioned into three segments. Note

Table 26. Benchmark-Model Region Dimensions.

Region	Composition[a]	R-min, cm	R-max, cm	Z-min, cm	Z-max, cm
Core1-s	1	0.00000	17.15926	0.00000	20.97024
Core2-m	21	0.00000	17.15926	-20.97263	0.00000
Poly1-cs	4	0.00000	17.15926	20.97024	36.21024
Poly2-cm	4	0.00000	17.15926	-36.21263	-20.97263
Drawer1-s	7	0.00000	17.15926	36.21024	55.97144
Drawer2-s	7	0.00000	17.15926	55.97144	86.43620
Drawer3-m	8	0.00000	17.15926	-112.49152	-36.21263
Vessel1-cs	9	17.15926	19.43608	0.00000	20.97024
Vessel2-cm	10	17.15926	19.43608	-20.97263	0.00000
Vessel3-us	11	17.15926	19.43608	20.97024	38.19144
Vessel4-lm	12	17.15926	19.43608	-38.19144	-20.97263
Drawer4-vs	7	17.15926	19.43608	38.19144	86.43620
Drawer5-vm	8	17.15926	19.43608	-112.49152	-38.19144
BeO reflector	13	19.43608	27.06478	-20.41144	20.41144
Poly3-bs	14	19.43608	27.06478	20.41144	35.65144
Poly4-bm	14	19.43608	27.06478	-35.65144	-20.41144
Poly5-par	15	27.06478	29.41740	-35.65144	35.65144
Drawer6-bs	7	19.43608	29.41740	35.65144	86.43620
Drawer7-bm	8	19.43608	29.41740	-112.49152	-35.65114
Poly6-rad	16	29.41740	41.94221	-30.48000	30.48000
Matrix1-ps	17	29.41740	41.94221	30.48000	86.43620
Matrix2-pm	17	29.41740	41.94221	-112.49152	-30.48000
Matrix3-inner	17	41.94221	52.96396	-112.49152	86.43620
Axshield1-s	18	0.00000	52.96396	86.43620	91.51620
Axshield2-m	18	0.00000	52.96396	-117.57152	-112.49152
Radshield1-sm	19	52.96396	59.85288	-60.96000	60.96000
Radshield2-s	20	52.96396	59.85288	60.96000	91.44000
Radshield3-m	20	52.96396	59.85288	-121.92000	-60.96000
Matrix4-m	17	0.00000	52.96396	-121.92000	-117.57152
Matrix5-s	17	52.96396	59.85288	91.44000	91.51620
Matrix6-s	17	0.00000	59.85288	91.51620	121.92000
Matrix7-sm	17	59.85288	239.99863	-121.92000	121.92000

[a] see Figure 8 and Section 3.3

that the x-widths of the three segments are not shown to scale in Figure 10. Since the x boundaries are -1.35895, -1.27000, 1.27000, and 1.35895 cm, the left and right edge segments are actually just narrow slivers.

Tables 28 and 28a also show the axial boundaries of the simulated SP-100 control rods and followers. This table also shows the composition numbers in the axial segments of the SP-100 rods and followers. It should be noted that the control rod regions in the benchmark model are modeled as rectangular zones, as they actually were in the ZPPR-20D assembly.

It takes the combination of Figures 8, 9 and 10 to visualize the complete benchmark model. The RZ depiction, Figure 8, shows how to build the benchmark model without the mockup control rods. The

seven rods can be added to that model as "overlays". Each rod model is a segmented right rectangular parallepiped (RPP) that replaces material in the initial RZ view. The XY positions of each RPP can be seen in Figure 9. The segmentation and axial positions can be seen in Figure 10.

Table 27. X- and Y-Boundaries of the Simulated SP-100 Control Rods and Followers in the ZPPR-20D Benchmark Model.

Rod	X-min, cm	X-max, cm	Y-min, cm	Y-max, cm
1	-1.35895	1.35895	8.28675	13.81125
2	-1.35895	1.35895	-2.76225	2.76225
3	-1.35895	1.35895	-13.81125	-8.28675
4	-11.00465	-8.28675	2.76225	8.28675
5	-11.00465	-8.28675	-8.28675	-2.76225
6	8.28675	11.00465	2.76225	8.28675
7	8.28675	11.00465	-8.28675	-2.76225

Table 28. Z-Boundaries of the Simulated SP-100 Control Rods (M2, M4, M5, M6, and M7) and Followers in the ZPPR-20D Benchmark Model.

Region	**Composition**	**Z-min, cm**	**Z-max, cm**
Core-s	2	0.00000	20.41144
Core-m	3	-20.41144	0.00000
Poly1-cs	5	20.41144	36.21024
Poly2-cm	6	-36.21263	-20.41144
Drawer1-s	5	36.21024	55.97144

Table 28a. Compositions and Z-Boundaries of the Simulated SP-100 Control Rods (M1 and M3) and Followers in the Critical ZPPR-20D Benchmark Model.

Composition			**Axial Dimension, cm**	
Left	**Center**	**Right**	**minimum**	**maximum**
8	3	8	-55.97144	-36.21263
4	3	4	-36.21263	-20.97263
21	3	21	-20.97263	-20.41144
21	23	21	-20.41144	0.00000
1	5	1	0.00000	20.41144
1	22	1	20.41144	20.97024
4	22	4	20.97024	36.21024

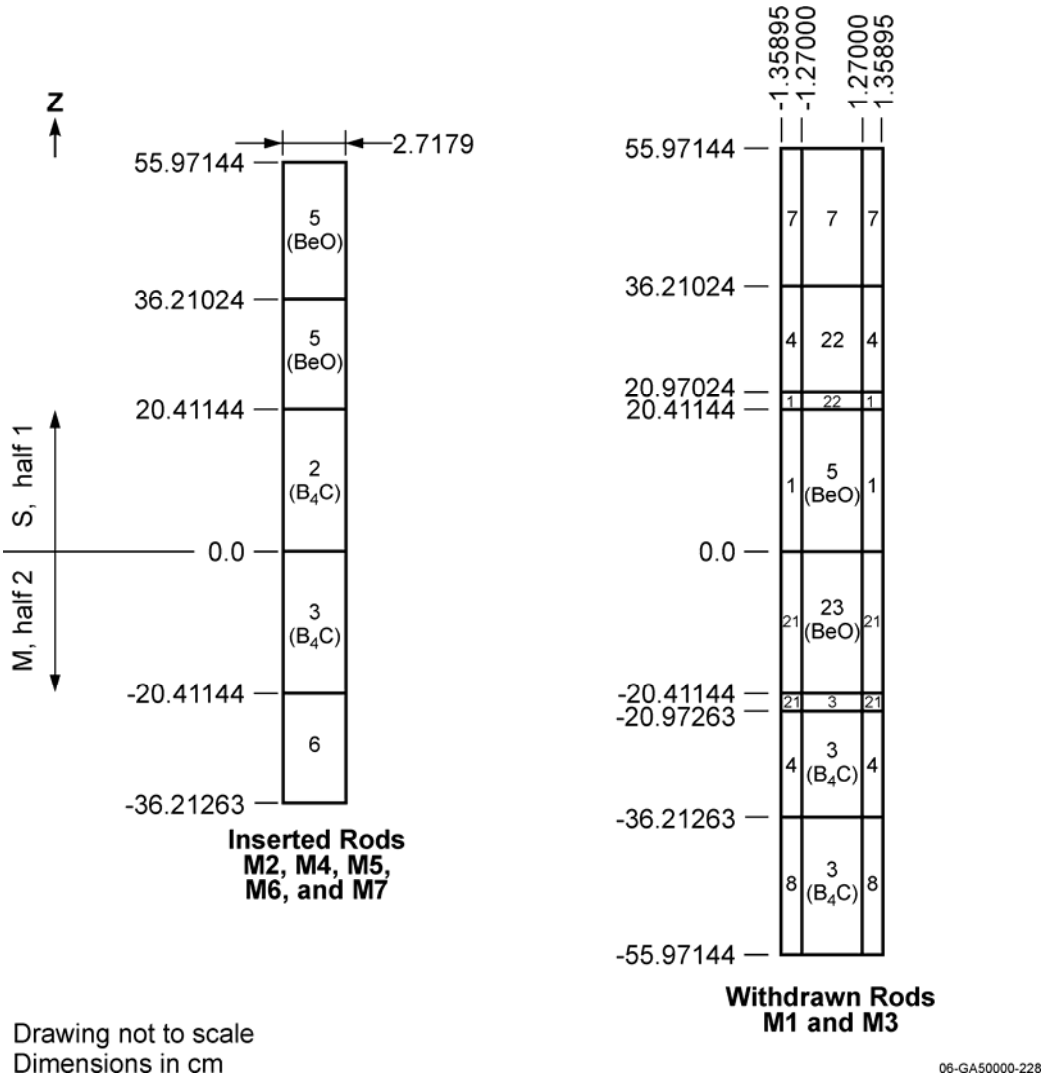


Figure 10. Axial Sketch of an Inserted and a Withdrawn Mockup Control Rod.

3.3 Material Data

Table 29 contains the region-dependent composition data for the benchmark model. The composition numbers given in Table 29 correspond to the composition labels shown in Figure 8.

Table 29. Atom Density Data for ZPPR-20 Phase D.

Nuclide	Comp. 1	Comp. 2	Comp. 3	Comp. 4	Comp. 5	Comp. 6
1H	1.68879E-02	0.0	0.0	5.77025E-02	7.92374E-06	6.92679E-02
Be	0.0	0.0	0.0	0.0	6.02686E-02	0.0
10B	0.0	6.42786E-02	6.61607E-02	0.0	0.0	0.0
11B	0.0	5.61820E-03	5.79328E-03	0.0	0.0	0.0
C	8.53175E-03	1.83502E-02	1.89717E-02	2.92381E-02	4.62248E-05	3.48838E-02
N	8.86407E-06	7.65146E-04	7.79108E-04	0.0	0.0	0.0
O		7.29537E-05	7.42849E-05	0.0	6.02692E-02	0.0
F	9.56367E-08	0.0	0.0	0.0	4.06918E-05	0.0
Al	2.41310E-07	3.61610E-08	2.18995E-08	0.0	6.64439E-09	0.0
Si	1.31162E-04	7.18065E-05	5.90238E-05	1.10902E-04	6.72453E-05	7.34732E-05
Cl	3.15381E-08	0.0	0.0	0.0	1.37412E-05	0.0
Cr	2.36368E-03	1.33792E-03	1.09042E-03	1.96924E-03	1.23020E-03	1.34010E-03
Mn	1.92529E-04	1.11178E-04	9.14863E-05	1.68521E-04	1.04531E-04	1.14338E-04
Fe	8.46947E-03	4.83114E-03	3.93062E-03	7.00839E-03	4.41486E-03	4.80117E-03
Co	1.91158E-06	0.0	0.0	0.0	0.0	0.0
Ni	9.72543E-04	5.36698E-04	4.39889E-04	8.27834E-04	5.03831E-04	5.51999E-04
Cu	2.28601E-05	1.65023E-05	1.36769E-05	2.12798E-05	1.56082E-05	1.70462E-05
Zr	6.77221E-05	0.0	0.0	0.0	0.0	0.0
Nb	6.58268E-03	0.0	0.0	1.14649E-06	0.0	0.0
Mo	1.75452E-05	8.31085E-06	6.84967E-06	1.07837E-05	7.78496E-06	8.49406E-06
185Re	1.79268E-03	0.0	0.0	8.45156E-04	0.0	0.0
187Re	2.96844E-03	0.0	0.0	1.39947E-03	0.0	0.0
234U	1.22124E-04	0.0	0.0	0.0	0.0	0.0
235U	1.24586E-02	0.0	0.0	0.0	0.0	0.0
236U	5.85465E-05	0.0	0.0	0.0	0.0	0.0
238U	7.14589E-04	0.0	0.0	0.0	0.0	0.0

Table 29 (cont'd). Atom Density Data for ZPPR-20 Phase D.

Nuclide	Comp. 7	Comp. 8	Comp. 9	Comp. 10	Comp. 11	Comp. 12
1H	0.0	0.0	4.40863E-02	4.60166E-02	3.93452E-02	3.76525E-02
C	2.57688E-05	2.33990E-05	2.22037E-02	2.31734E-02	1.99033E-02	1.90279E-02
Al	2.05818E-07	1.15296E-07	5.56063E-07	4.43953E-07	2.65302E-07	3.97810E-07
Si	8.31522E-05	7.79830E-05	5.84392E-05	5.62360E-05	5.75231E-05	6.56120E-05
Cr	1.48879E-03	1.38559E-03	1.11179E-03	1.05405E-03	1.11028E-03	1.12793E-03
Mn	1.29349E-04	1.21301E-04	9.01010E-05	8.58105E-05	9.28327E-05	9.64403E-05
Fe	5.40542E-03	5.01826E-03	4.00823E-03	3.80602E-03	3.96917E-03	4.01593E-03
Co	6.19845E-08	3.47226E-08	1.49639E-07	1.17171E-07	7.68347E-08	1.15211E-07
Ni	6.16530E-04	5.69315E-04	4.59287E-04	4.29111E-04	4.74492E-04	4.74557E-04
Cu	1.84149E-05	1.80024E-05	1.22497E-05	1.20693E-05	1.23920E-05	1.23657E-05
Nb	0.0	0.0	1.26664E-02	1.26664E-02	1.28029E-02	1.27878E-02
Mo	9.03096E-06	8.77287E-06	5.99282E-06	5.97098E-06	6.14396E-06	6.13774E-06

Table 29 (cont'd). Atom Density Data for ZPPR-20 Phase D.

Nuclide	Comp. 13	Comp. 14	Comp. 15	Comp. 16	Comp. 17	Comp. 18
1H	1.13400E-04	6.78742E-02	6.97163E-02	6.72952E-02	0.0	5.45833E-02
Be	5.72192E-02	0.0	0.0	0.0	0.0	0.0
10B	0.0	0.0	0.0	0.0	0.0	4.33688E-04
11B	0.0	0.0	0.0	0.0	0.0	1.75941E-03
C	1.12975E-04	3.42393E-02	3.51089E-02	3.38886E-02	1.85933E-05	2.41833E-02
O	5.72042E-02	0.0	0.0	0.0	0.0	6.58041E-03
F	5.22015E-05	0.0	0.0	0.0	0.0	0.0
Al	3.69429E-08	0.0	2.07959E-08	0.0	0.0	0.0
Si	8.53368E-05	8.73271E-05	6.99064E-05	6.61205E-05	6.77630E-05	6.84038E-05
Cl	1.76362E-05	0.0	0.0	0.0	0.0	0.0
Cr	1.58634E-03	1.59460E-03	1.29307E-03	1.15100E-03	1.17957E-03	1.19224E-03
Mn	1.32259E-04	1.35911E-04	1.08474E-04	1.02512E-04	1.05057E-04	1.06117E-04
Fe	5.71986E-03	5.71236E-03	4.65382E-03	4.14209E-03	4.24488E-03	4.29029E-03
Ni	6.39604E-04	6.57134E-04	5.24651E-04	4.64793E-04	4.76329E-04	4.81505E-04
Cu	1.95954E-05	2.02168E-05	1.60844E-05	1.66820E-05	1.70944E-05	1.72406E-05
Mo	9.86225E-06	1.00846E-05	8.07576E-06	7.99345E-06	8.19076E-06	8.28272E-06

Table 29 (cont'd). Atom Density Data for ZPPR-20 Phase D.

Nuclide	Comp. 19	Comp. 20	Comp. 21	Comp. 22	Comp. 23
^{1}H	2.57075E-02	5.68178E-02	1.65741E-02	7.41222E-02	8.34430E-06
^{6}Li	1.89469E-03	0.0	0.0	0.0	0.0
^{7}Li	2.38483E-02	0.0	0.0	0.0	0.0
Be	0.0	0.0	0.0	0.0	6.34673E-02
^{10}B	0.0	4.53602E-04	0.0	0.0	0.0
^{11}B	0.0	1.82954E-03	0.0	0.0	0.0
C	8.20132E-05	2.51732E-02	8.37397E-03	3.73175E-02	4.02622E-05
N	0.0	0.0	8.86283E-06	0.0	0.0
O	0.0	6.85004E-03	0.0	0.0	6.34680E-02
F	0.0	0.0	9.56254E-08	0.0	4.28515E-05
Na	2.04150E-06	0.0	0.0	0.0	0.0
Mg	3.99522E-08	0.0	0.0	0.0	0.0
Al	7.19780E-08	0.0	2.76204E-07	0.0	3.76091E-08
Si	6.72155E-05	6.83105E-05	1.31566E-04	3.93991E-05	3.82095E-05
Cl	0.0	0.0	3.15343E-08	0.0	1.44705E-05
K	2.64918E-07	0.0	0.0	0.0	0.0
Ca	1.23560E-06	0.0	0.0	0.0	0.0
Cr	1.17005E-03	1.18909E-03	2.36978E-03	7.10454E-04	7.17795E-04
Mn	1.51106E-04	1.05905E-04	1.92968E-04	6.12551E-05	5.88114E-05
Fe	1.26871E-02	4.27914E-03	8.49047E-03	2.54807E-03	2.61376E-03
Co	0.0	0.0	1.92137E-06	0.0	0.0
Ni	4.72484E-04	4.80175E-04	9.75721E-04	2.91262E-04	2.79261E-04
Cu	1.69570E-05	1.72319E-05	2.28957E-05	9.33935E-06	8.90427E-06
Zr	0.0	0.0	6.77141E-05	0.0	0.0
Nb	0.0	0.0	6.58190E-03	0.0	0.0
Mo	8.12499E-06	8.25653E-06	1.75475E-05	4.60640E-06	4.47900E-06
^{185}Re	0.0	0.0	1.79247E-03	0.0	0.0
^{187}Re	0.0	0.0	2.96809E-03	0.0	0.0
^{234}U	0.0	0.0	1.22110E-04	0.0	0.0
^{235}U	0.0	0.0	1.24572E-02	0.0	0.0
^{236}U	0.0	0.0	5.85398E-05	0.0	0.0
^{238}U	0.0	0.0	7.14507E-04	0.0	0.0

3.4 Temperature Data

The average temperature of Loading 129 during the criticality measurement was 18°C. For any reasonable definition of room temperature, the temperature adjustment to k_{eff} is negligible. Furthermore, as can be seen from Table 25, the uncertainty due to uncertainties in this temperature is also small.

3.5 Experimental and Benchmark Model k_{eff}

The transformation Δk (bias) from the as-built configuration to the benchmark model described in Section 3.1 was calculated using the VIM and MCNP continuous-energy Monte Carlo codes with ENDF/B-V and ENDF/B-VI data. These results are given in Table 30. The uncertainties shown are just the statistical standard deviations from VIM and MCNP Monte Carlo simulations. It may be noted that, even though there is some variation between the eigenvalues obtained with the two different Monte Carlo codes and between the two different evaluated data libraries, the calculated transformation Δk is not particularly sensitive to either. Of the four values of the transformation Δk shown in Table 30, three of these values are statistically identical and the fourth value (0.0100 ± 0.0005 obtained using MCNP4C with ENDF/B-V data) is discrepant. The discrepant value has been shown to result from the approximate treatment (i.e., unavailability of using the probability table treatment in the unresolved resonance region in the MCNP4C code and library) of the absorption in rhenium. Note that in this assembly approximately 40% of the captures in the core occur in rhenium. The probability table treatment of the unresolved region for rhenium lowers the effective capture cross section for rhenium over that energy range thereby increasing the calculated k_{eff}. Because the representation of the rhenium cross sections in the resolved and unresolved energy ranges differs greatly[a] between the ENDF/B-V and -VI evaluations, the effect of including the probability table treatment in the Monte Carlo method differs between the ENDF/B-V and -VI calculation. More importantly, the MCNP calculations of the variation of the transformation Δk with nuclear data evaluation include a methods bias (which is necessarily nuclear data dependent because the MCNP4C library cannot include the probability table treatment).[b] An average of the three values of the transformation Δk in Table 30 derived with consistent methods (i.e., the two VIM ENDF/B-V and -VI values and the one MCNP5 ENDF/B-VI value) yields a value of 0.0030 ± 0.0005. **Users of this benchmark model should note that the calculated eigenvalue is sensitive to the calculated absorption in rhenium. Therefore, analytical methods that do not include proper treatment (i.e., probability table treatment) of capture in the unresolved energy region will exhibit a methods bias. That methods bias is not to be confused with the quoted values of the transformation Δk (which is a correction for the modeling simplifications between the detailed and simplified representations of this assembly and is not a correction for other methods approximations).**

[a] In the ENDF/B-V evaluation (Henderson, Zwick, et al – January 1968), the resolved resonance region extends only to ~100 eV and the unresolved resonance region extends to 100 keV; whereas in the ENDF/B-VI evaluation (Weston, Young, et al – March 1990), the resolved resonance region extends to 2 keV and the unresolved resonance region extends only to 35 keV.

[b] This effect was verified using calculations with the VIM code which alternately did or did not include the probability table treatment. Furthermore, it was shown that the effect results predominantly from the treatment of the absorption in rhenium (i.e., the effects in ^{235}U and ^{238}U are much smaller).

Table 30. Eigenvalues for Transformation From As-Built Model to RZ Benchmark Model.

	As-Built-Model k_{eff}	RZ Benchmark-Model k_{eff}	Transformation Δk (Bias)
VIM (ENDF/B-V)	1.0083 ± 0.0003	1.0119 ± 0.0004	0.0036 ± 0.0005
VIM (ENDF/B-VI)	1.0131 ± 0.0003	1.0160 ± 0.0004	0.0029 ± 0.0005
MCNP4C (ENDF/B-V)	0.9931 ± 0.0002	1.0035 ± 0.0003	0.0104 ± 0.0004
MCNP5 (ENDF/B-VI)	1.0051 ± 0.0003	1.0077 ± 0.0003	0.0026 ± 0.0004

An estimate of the total uncertainty in the transformation Δk from the as-built platewise heterogeneous critical-assembly model to the homogeneous cylindrical model is needed. Since there are no significant geometric approximations in the as-built model and there are no cross section processing approximations associated with either model, the only sources of uncertainty added to the original experimental uncertainty come from the Monte Carlo statistical precision and the sensitivity of the calculated Δk values to uncertainties in the basic cross section data. The major uncertainties in the assembly arise from fission production in uranium and absorption in uranium and rhenium. Uncertainties in the k_{eff} of fast reactor assemblies due to calculations with ENDF/B-V data have been quantified to be in the range of 2% Δk.[a]

The issue is the uncertainty in the translation from the heterogeneous assembly model to the homogenous benchmark model. Because there is a strong correlation between the two calculations, the difference in the two calculations can have a much smaller uncertainty than either individual calculation. That is, the calculations for the transformation Δk value are based on the same code and on the same cross sections, with similar sensitivities of k_{eff} to the cross sections, and are thus highly correlated. The ensuing uncertainty in the transformation Δk is therefore assumed smaller by an order of magnitude, or ±0.2% Δk. (The calculated values in Table 30 are consistent with this assumption.) Adding in quadrature the uncertainties due to use of ENDF/B-VI cross sections and the uncertainty of 0.05% from statistics in the two Monte Carlo calculations yields a total uncertainty in the transformation Δk of 0.21% Δk.

This uncertainty estimate is believed to be adequate but still sufficiently small for criticality-safety benchmark purposes. The actual correlations are likely higher than the values assumed in deriving the estimated uncertainty. Note that the estimated uncertainty in the transformation is about one-half of the value of the transformation itself.

Several small adjustments to the measured k_{eff} are needed to account for differences between the actual experiment conditions and the as-built model. The first three adjustments and their associated uncertainties were quantified in Section 2.2. The matrix-interface gap, estimated to be 0.124 cm, was not included in the as-built model. Removal of this gap increases k_{eff} by 0.1605 %Δk, based on the gap worth measurement data. The models are based on a square matrix pitch of 2.175 inches, which is the pitch that has been used in analysis and reporting of ZPR assemblies for decades. Adjusting from the effective square pitch measured for ZPPR to 2.175 inches decreases k_{eff} by

[a] Table IV in: D. N. Olsen, P. J. Collins and S. G. Carpenter, "Experiments of IFR Fuel Criticality in ZPPR-21," *ICNC '91 International Conference on Criticality Safety*, Oxford, UK, September 9-13, 1991.

0.0507 %Δk. The models end in the empty matrix beyond the plate-loaded drawers. Omission of the remaining empty matrix and the massive supporting structures was estimated to decrease k_{eff} by 0.0001 %Δk. Two adjustments were noted in Section 2.3. Omission of trace impurities in the uranium fuel increases k_{eff} by 0.0378 %Δk. The effect of omitting humid air from the models (replaced by void) is so small, 0.0001 %Δk, that this effect was treated as an uncertainty rather than an adjustment. The uncertainty contributions from all of these differences were included in the uncertainty evaluations in Section 2.

The data for the experimental and benchmark-model k_{eff} values are summarized in Table 31. The data in the table are in units of k_{eff}. The measured k_{eff} reflects the subcritical reactivity from Section 2.1. The four adjustments leading to the adjusted experimental k_{eff} were just discussed. The uncertainty in the adjusted value is the total uncertainty from Table 25 in Section 2.4. Applying the Monte Carlo transformation to the adjusted experimental k_{eff} yields the benchmark model k_{eff} shown on the last line.

Table 31. Experimental and Benchmark-Model Eigenvalues.[(a)]

Measured k_{eff}	0.99970
Remove Matrix-Interface Gap	+0.00161
Adjust Matrix Pitch	-0.00051
Eliminate Room Return	-0.00000
Eliminate U Impurities	+0.00038
Adjusted Experimental k_{eff}	1.0012 ± 0.0011
Monte Carlo transformation of model	0.0030 ± 0.0021
Benchmark-Model k_{eff}	1.0042 ± 0.0024

(a) Each uncertainty estimate is one standard deviation.

4.0 RESULTS OF SAMPLE CALCULATIONS

Results of sample calculations of the benchmark model of ZPPR-20D are given in Table 32. Only the result from MCNP4C with ENDF/B-V.2 data agrees with experiment within uncertainties. However, this agreement results from a fortuitous cancellation of calculational errors; as discussed in Section 3.5, this code/data combination does not treat the unresolved resonances of rhenium correctly. The result from MCNP5 with ENDF/B-VI.6 is high by only 0.0035 (1.5σ). Both of the results from VIM are higher; by 0.0077 (3.2σ) with ENDF/B-V.2 and by 0.0118 (4.9σ). The bias between MCNP5 and VIM with nearly the same cross section data. 0.0083, is large enough to cause concern.

Typical input listings are provided in Appendix A.

Table 32. Sample Calculation Results (United States).

Code (Cross Section Set) → Case ↓	**MCNP4C (Continuous Energy ENDF/B-V.2)**	**MCNP5 (Continuous Energy ENDF/B-VI.6)**	**VIM (Continuous Energy ENDF/B-V.2)[(a)]**	**VIM (Continuous Energy ENDF/B-VI.8)**
ZPPR-20/D Benchmark	1.0035 ± 0.0003	1.0077 ± 0.0003	1.0119 ± 0.0004	1.0160 ± 0.0004

(a) Except for BeO, which was ENDF/B-III.

5.0 REFERENCES

1. H. F. McFarlane, P. J. Collins, S. G. Carpenter, D. N. Olsen, D. M. Smith, R. W. Schaefer, R. A. Doncals, S. V. Andre, C. A. Porter, C. L. Cowan, S. L. Stewart, and R. Protsik, "Analysis and Evaluation of ZPPR Critical Experiments for a 100 Kilowatt-electric Space Reactor," Proc. of Intl. Conf. on the Physics of Reactors: Operation, Design and Computation, April 23-27, 1990, Marseille, France, Vol. 3, pages PI 79-92 (1990).

2. D. N. Olsen, R. W. Schaefer, J. R. Ross and S. G. Carpenter, “Experiments for the SP-100 Space Reactor in ZPPR-20,” INL/EXT-05-00556 and ANL-ZPR-497, August 2005.

3. D. N. Olsen, R. W. Schaefer, S. G. Carpenter and J. R. Ross, “Configurations for SP-100 Experiments in ZPPR-20,” INL/EXT-05-00558 and ANL-ZPR-498, August 2005.

APPENDIX A: TYPICAL INPUT LISTINGS

A.1 KENO Input Listings

Calculations for the ZPPR-20D benchmark have not been performed using SCALE/KENO.

A.2 MCNP Input Listings

A sample MCNP input is shown below for the cylindrical benchmark models of ZPPR-20 Assembly D. This input was used with continuous energy ENDF/B-V cross sections for all nuclides by using the suffix 50c with the nuclide ID. The input for the calculations with continuous energy ENDF/B-VI cross sections is the same except that the nuclide ID suffix is 66c and some elements are replaced by their naturally occurring isotopes. The calculations used 10000 neutron histories per generation and 400 active generations, after skipping 40.

MCNP with ENDF/B-V Data Input Listing, Table 33.

```
mr20d129v5 - zppr-20d, loading 129 - rz model - vers 5 xs
c
c     zppr-20d, loading 129 - rz model from vz20d129v5
c     version 5 xs
c     zone 1 - core and control rods
001    1  6.23660e-2   -1   8 -10 -13  imp:n=1 $ core 01-01
002   21  6.19228e-2   -1  -8   9 -13  imp:n=1 $ core 01-01
003    1  6.23660e-2   -1   8 -10  13 -14 -20  imp:n=1 $ core-01-02
004   21  6.19228e-2   -1  -8   9  13 -14 -20  imp:n=1 $ core-01-02
005    2  9.59987e-2   13 -14  20 -21   8 -33  imp:n=1 $ cr-01-s
006    3  9.74111e-2   13 -14  20 -21  -8  32  imp:n=1 $ cr-01-m
007    1  6.23660e-2   13 -14  21 -22   8 -10  imp:n=1 $ core-01-03
008   21  6.19228e-2   13 -14  21 -22  -8   9  imp:n=1 $ core-01-03
009    2  9.59987e-2   13 -14  22 -23   8 -33  imp:n=1 $ cr-02-s
010    3  9.74111e-2   13 -14  22 -23  -8  32  imp:n=1 $ cr-02-m
011    1  6.23660e-2   -1   8 -10  13 -14  23  imp:n=1 $ core-01-04
012   21  6.19228e-2   -1  -8   9  13 -14  23  imp:n=1 $ core-01-04
013    1  6.23660e-2   -1   8 -10  14 -15  imp:n=1 $ core-01-05
014   21  6.19228e-2   -1  -8   9  14 -15  imp:n=1 $ core-01-05
015    1  6.23660e-2   -1   8 -10  15 -16 -19  imp:n=1 $ core-01-06
016   21  6.19228e-2   -1  -8   9  15 -16 -19  imp:n=1 $ core-01-06
311    1  6.23660e-2   15 -45  19 -20   8 -10  imp:n=1 $ core-cr-03-s
017    5  1.26990e-1   45 -46  19 -20   8 -33  imp:n=1 $ cr-03-s
312    1  6.23660e-2   46 -16  19 -20   8 -10  imp:n=1 $ core-cr-03-s
313   21  6.19228e-2   15 -45  19 -20  -8   9  imp:n=1 $ core-cr-03-m
018   23  1.30762e-1   45 -46  19 -20  -8  32  imp:n=1 $ cr-03-m
314   21  6.19228e-2   46 -16  19 -20  -8   9  imp:n=1 $ core-cr-03-m
019    1  6.23660e-2   15 -16  20 -21   8 -10  imp:n=1 $ core-01-07
020   21  6.19228e-2   15 -16  20 -21  -8   9  imp:n=1 $ core-01-07
021    2  9.59987e-2   15 -16  21 -22   8 -33  imp:n=1 $ cr-04-s
022    3  9.74111e-2   15 -16  21 -22  -8  32  imp:n=1 $ cr-04-m
023    1  6.23660e-2   15 -16  22 -23   8 -10  imp:n=1 $ core-01-08
024   21  6.19228e-2   15 -16  22 -23  -8   9  imp:n=1 $ core-01-08
321    1  6.23660e-2   15 -45  23 -24   8 -10  imp:n=1 $ core-cr-05-s
025    5  1.26990e-1   45 -46  23 -24   8 -33  imp:n=1 $ cr-05-s
322    1  6.23660e-2   46 -16  23 -24   8 -10  imp:n=1 $ core-cr-05-s
323   21  6.19228e-2   15 -45  23 -24  -8   9  imp:n=1 $ core-cr-05-m
026   23  1.30762e-1   45 -46  23 -24  -8  32  imp:n=1 $ cr-05-m
324   21  6.19228e-2   46 -16  23 -24  -8   9  imp:n=1 $ core-cr-05-m
027    1  6.23660e-2   -1   8 -10  15 -16  24  imp:n=1 $ core-01-09
028   21  6.19228e-2   -1  -8   9  15 -16  24  imp:n=1 $ core-01-09
029    1  6.23660e-2   -1   8 -10  16 -17  imp:n=1 $ core-01-10
030   21  6.19228e-2   -1  -8   9  16 -17  imp:n=1 $ core-01-10
031    1  6.23660e-2   -1   8 -10  17 -18 -20  imp:n=1 $ core-01-11
032   21  6.19228e-2   -1  -8   9  17 -18 -20  imp:n=1 $ core-01-11
033    2  9.59987e-2   17 -18  20 -21   8 -33  imp:n=1 $ cr-06-s
034    3  9.74111e-2   17 -18  20 -21  -8  32  imp:n=1 $ cr-06-m
035    1  6.23660e-2   17 -18  21 -22   8 -10  imp:n=1 $ core-01-12
036   21  6.19228e-2   17 -18  21 -22  -8   9  imp:n=1 $ core-01-12
037    2  9.59987e-2   17 -18  22 -23   8 -33  imp:n=1 $ cr-07-s
038    3  9.74111e-2   17 -18  22 -23  -8  32  imp:n=1 $ cr-07-m
039    1  6.23660e-2   -1   8 -10  17 -18  23  imp:n=1 $ core-01-13
040   21  6.19228e-2   -1  -8   9  17 -18  23  imp:n=1 $ core-01-13
041    1  6.23660e-2   -1   8 -10  18  imp:n=1 $ core-01-14
042   21  6.19228e-2   -1  -8   9  18  imp:n=1 $ core-01-14
c     zone 2 - poly plus control rod followers above core-s
043    4  9.93033e-2   -1  10 -12 -13  imp:n=1 $ poly-s 01-01
044    4  9.93033e-2   -1  10 -12  13 -14 -20  imp:n=1 $ poly-s-01-02
045    5  1.26990e-1   13 -14  20 -21  33 -12  imp:n=1 $ crfs-01-s
046    4  9.93033e-2   13 -14  21 -22  10 -12  imp:n=1 $ poly-s-01-03
```

```
047    5  1.26990e-1   13 -14  22 -23  33 -12  imp:n=1 $ crfs-02-s
048    4  9.93033e-2   -1  10 -12  13 -14  23  imp:n=1 $ poly-s-01-04
049    4  9.93033e-2   -1  10 -12  14 -15  imp:n=1 $ poly-s-01-05
050    4  9.93033e-2   -1  10 -12  15 -16 -19  imp:n=1 $ poly-s-01-06
411    4  9.93033e-2   15 -45  19 -20  10 -12  imp:n=1 $ poly-crfs-03-s
051   22  1.15104e-1   45 -46  19 -20  33 -12  imp:n=1 $ crfs-03-s
412    4  9.93033e-2   46 -16  19 -20  10 -12  imp:n=1 $ poly-crfs-03-s
052    4  9.93033e-2   15 -16  20 -21  10 -12  imp:n=1 $ poly-s-01-07
053    5  1.26990e-1   15 -16  21 -22  33 -12  imp:n=1 $ crfs-04-s
054    4  9.93033e-2   15 -16  22 -23  10 -12  imp:n=1 $ poly-s-01-08
421    4  9.93033e-2   15 -45  23 -24  10 -12  imp:n=1 $ poly-crfs-03-s
055   22  1.15104e-1   45 -46  23 -24  33 -12  imp:n=1 $ crfs-05-s
422    4  9.93033e-2   46 -16  23 -24  10 -12  imp:n=1 $ poly-crfs-03-s
056    4  9.93033e-2   -1  10 -12  15 -16  24  imp:n=1 $ poly-s-01-09
057    4  9.93033e-2   -1  10 -12  16 -17  imp:n=1 $ poly-s-01-10
058    4  9.93033e-2   -1  10 -12  17 -18 -20  imp:n=1 $ poly-s-01-11
059    5  1.26990e-1   17 -18  20 -21  33 -12  imp:n=1 $ crfs-06-s
060    4  9.93033e-2   17 -18  21 -22  10 -12  imp:n=1 $ poly-s-01-12
061    5  1.26990e-1   17 -18  22 -23  33 -12  imp:n=1 $ crfs-07-s
062    4  9.93033e-2   -1  10 -12  17 -18  23  imp:n=1 $ poly-s-01-13
063    4  9.93033e-2   -1  10 -12  18  imp:n=1 $ poly-s-01-14
c     zone 3 - poly plus control rod followers below core-m
064    4  9.93033e-2   -1  11  -9 -13  imp:n=1 $ poly-m 01-01
065    4  9.93033e-2   -1  11  -9  13 -14 -20  imp:n=1 $ poly-m-01-02
066    6  1.11058e-1   13 -14  20 -21  11 -32  imp:n=1 $ crfm-01-m
067    4  9.93033e-2   13 -14  21 -22  11  -9  imp:n=1 $ poly-m-01-03
068    6  1.11058e-1   13 -14  22 -23  11 -32  imp:n=1 $ crfm-02-m
069    4  9.93033e-2   -1  11  -9  13 -14  23  imp:n=1 $ poly-m-01-04
070    4  9.93033e-2   -1  11  -9  14 -15  imp:n=1 $ poly-m-01-05
071    4  9.93033e-2   -1  11  -9  15 -16 -19  imp:n=1 $ poly-m-01-06
431    4  9.93033e-2   15 -45  19 -20  11  -9  imp:n=1 $ poly-crfs-03-m
072    3  9.74111e-2   45 -46  19 -20  11 -32  imp:n=1 $ crfm-03-m
432    4  9.93033e-2   46 -16  19 -20  11  -9  imp:n=1 $ poly-crfs-03-m
073    4  9.93033e-2   15 -16  20 -21  11  -9  imp:n=1 $ poly-m-01-07
074    6  1.11058e-1   15 -16  21 -22  11 -32  imp:n=1 $ crfm-04-m
075    4  9.93033e-2   15 -16  22 -23  11  -9  imp:n=1 $ poly-m-01-08
441    4  9.93033e-2   15 -45  23 -24  11  -9  imp:n=1 $ poly-crfs-05-m
076    3  9.74111e-2   45 -46  23 -24  11 -32  imp:n=1 $ crfm-05-m
442    4  9.93033e-2   46 -16  23 -24  11  -9  imp:n=1 $ poly-crfs-05-m
077    4  9.93033e-2   -1  11  -9  15 -16  24  imp:n=1 $ poly-m-01-09
078    4  9.93033e-2   -1  11  -9  16 -17  imp:n=1 $ poly-m-01-10
079    4  9.93033e-2   -1  11  -9  17 -18 -20  imp:n=1 $ poly-m-01-11
080    6  1.11058e-1   17 -18  20 -21  11 -32  imp:n=1 $ crfm-06-m
081    4  9.93033e-2   17 -18  21 -22  11  -9  imp:n=1 $ poly-m-01-12
082    6  1.11058e-1   17 -18  22 -23  11 -32  imp:n=1 $ crfm-07-m
083    4  9.93033e-2   -1  11  -9  17 -18  23  imp:n=1 $ poly-m-01-13
084    4  9.93033e-2   -1  11  -9  18  imp:n=1 $ poly-m-01-14
c     zone 4 - empty drawers plus control rod followers above core-s
085    7  7.77672e-3   -1  12 -25 -13  imp:n=1 $ empty-s 01-01
086    7  7.77672e-3   -1  12 -25  13 -14 -20  imp:n=1 $ empty-s-01-02
087    5  1.26990e-1   13 -14  20 -21  12 -25  imp:n=1 $ crfs-01-s
088    7  7.77672e-3   13 -14  21 -22  12 -25  imp:n=1 $ empty-s-01-03
089    5  1.26990e-1   13 -14  22 -23  12 -25  imp:n=1 $ crfs-02-s
090    7  7.77672e-3   -1  12 -25  13 -14  23  imp:n=1 $ empty-s-01-04
091    7  7.77672e-3   -1  12 -25  14 -15  imp:n=1 $ empty-s-01-05
092    7  7.77672e-3   -1  12 -25  15 -16 -19  imp:n=1 $ empty-s-01-06
451    7  7.77672e-3   15 -45  19 -20  12 -25  imp:n=1 $ empty-crfs-03-s
093    7  7.77672e-3   45 -46  19 -20  12 -25  imp:n=1 $ crfs-03-s
452    7  7.77672e-3   46 -16  19 -20  12 -25  imp:n=1 $ empty-crfs-03-s
094    7  7.77672e-3   15 -16  20 -21  12 -25  imp:n=1 $ empty-s-01-07
095    5  1.26990e-1   15 -16  21 -22  12 -25  imp:n=1 $ crfs-04-s
096    7  7.77672e-3   15 -16  22 -23  12 -25  imp:n=1 $ empty-s-01-08
461    7  7.77672e-3   15 -45  23 -24  12 -25  imp:n=1 $ empty-crfs-05-s
097    7  7.77672e-3   45 -46  23 -24  12 -25  imp:n=1 $ crfs-05-s
462    7  7.77672e-3   46 -16  23 -24  12 -25  imp:n=1 $ empty-crfs-05-s
098    7  7.77672e-3   -1  12 -25  15 -16  24  imp:n=1 $ empty-s-01-09
099    7  7.77672e-3   -1  12 -25  16 -17  imp:n=1 $ empty-s-01-10
100    7  7.77672e-3   -1  12 -25  17 -18 -20  imp:n=1 $ empty-s-01-11
101    5  1.26990e-1   17 -18  20 -21  12 -25  imp:n=1 $ crfs-06-s
102    7  7.77672e-3   17 -18  21 -22  12 -25  imp:n=1 $ empty-s-01-12
103    5  1.26990e-1   17 -18  22 -23  12 -25  imp:n=1 $ crfs-07-s
104    7  7.77672e-3   -1  12 -25  17 -18  23  imp:n=1 $ empty-s-01-13
105    7  7.77672e-3   -1  12 -25  18  imp:n=1 $ empty-s-01-14
c     zone 5 - empty drawers above core-s
106    7  7.77672e-3   -1  25 -26  imp:n=1 $ empty drawers-s
c     dm 0461 b4c rods in empty drawers - cr03, cr05 - m
```

```
501    8  7.22277e-3   -1 -45 -11  47  imp:n=1 $ empty-m-01-01
502    8  7.22277e-3   -1  45 -46 -19 -11  47  imp:n=1 $ empty-m-01-02
503    3  9.74111e-2   45 -46  19 -20 -11  47  imp:n=1 $ cr03 rod
504    8  7.22277e-3   45 -46  20 -23 -11  47  imp:n=1 $ empty-m-01-03
505    3  9.74111e-2   45 -46  23 -24 -11  47  imp:n=1 $ cr05 rod
506    8  7.22277e-3   -1  45 -46  24 -11  47  imp:n=1 $ empty-m-01-04
507    8  7.22277e-3   -1  46 -11  47  imp:n=1 $ empty-m-01-05
c     zone 6 - empty drawers below core-m
107    8  7.22277e-3   -1  28 -47  imp:n=1 $ empty drawers-m
c     zone 7 - vessel (core level)
108    9  8.47032e-2    1  -2   8 -10  imp:n=1 $ vessel-s
109   10  8.73062e-2    1  -2  -8   9  imp:n=1 $ vessel-m
c     zone 8 - vessel (above and below core level)
110   11  7.77746e-2    1  -2  10 -31  imp:n=1 $ vessel/upper-s
111   12  7.52677e-2    1  -2  30  -9  imp:n=1 $ vessel/lower-m
c     zone 9 - empty drawers above/below vessel
112    7  7.77672e-3    1  -2  31 -26  imp:n=1 $ empty dr/upper-s
113    8  7.22277e-3    1  -2  28 -30  imp:n=1 $ empty dr/lower-m
c     zone 10 - beo refl-s,m
114   13  1.22912e-1    2  -3  32 -33  imp:n=1 $ beo refl
c     zone 11 - poly above and below beo refl-s,m
115   14  1.10331e-1    2  -3  33 -35  imp:n=1 $ poly above beo-s
116   14  1.10331e-1    2  -3  34 -32  imp:n=1 $ poly below beo-m
c     zone 12 - poly (radial) in beo partials - s,m
117   15  1.11499e-1    3  -4  34 -35  imp:n=1 $ poly(rad)/partials
c     zone 13 - empty drawers above beo, partials-s,m
118    7  7.77672e-3    2  -4  35 -26  imp:n=1 $ empty dr/upper-s
119    8  7.22277e-3    2  -4  28 -34  imp:n=1 $ empty dr/lower-m
c     zone 14 - poly radial refl (0600)-s,m
120   16  1.07135e-1    4  -5  36 -37  imp:n=1 $ poly rad refl
c     zone 15 - empty matrix above and below poly rad refl-s,m
121   17  6.11748e-3    4  -5  37 -26  imp:n=1 $ empty matrix-s
122   17  6.11748e-3    4  -5  28 -36  imp:n=1 $ empty matrix-m
c     zone 16 - empty matrix inside radial n shield-s,m
123   17  6.11748e-3    5  -6  28 -26  imp:n=1 $ empty matrix-s,m
c     zone 17 - axial neutron shields-s,m
124   18  9.37042e-2   -6  26 -27  imp:n=1 $ ax n shld-s
125   18  9.37042e-2   -6  29 -28  imp:n=1 $ ax n shld-m
c     zone 18 - radial neutron shield-s,m
126   19  6.61092e-2    6  -7  38 -39  imp:n=1 $ lih rad shld
127   20  9.72723e-2    6  -7  39 -40  imp:n=1 $ bpoly rad shld-s
128   20  9.72723e-2    6  -7  42 -38  imp:n=1 $ bpoly rad shld-m
c     zone 19 - external voids
129   17  6.11748e-3   -6  42 -29  imp:n=1 $ ext void 1
130   17  6.11748e-3    6  -7  40 -27  imp:n=1 $ ext void 2
131   17  6.11748e-3   (-7 27 -43):(7 -41 42 -43)  imp:n=1 $ ext void 3
c     external void
132    0              (43:41:-42)  imp:n=0 $ external void

1     cz     17.15926
2     cz     19.43608
3     cz     27.06478
4     cz     29.41740
5     cz     41.94221
6     cz     52.96396
7     cz     59.85288
8     pz      0.00000
9     pz    -20.97263
10    pz     20.97024
11    pz    -36.21263
12    pz     36.21024
13    px    -11.00465
14    px     -8.28675
15    px     -1.35895
16    px      1.35895
17    px      8.28675
18    px     11.00465
19    py    -13.81125
20    py     -8.28675
21    py     -2.76225
22    py      2.76225
23    py      8.28675
24    py     13.81125
25    pz     55.97144
26    pz     86.43620
27    pz     91.51620
```

```
28    pz   -112.49152
29    pz   -117.57152
30    pz    -38.19144
31    pz     38.19144
32    pz    -20.41144
33    pz     20.41144
34    pz    -35.65144
35    pz     35.65144
36    pz    -30.48000
37    pz     30.48000
38    pz    -60.96000
39    pz     60.96000
40    pz     91.44000
41    cz    239.99863
42    pz   -121.92000
43    pz    121.92000
44    cz    246.23236
45    px     -1.27000
46    px      1.27000
47    pz    -55.97144

mode  n
kcode  10000  0.95  40  440  20000  0  8000  1
sdef   erg=d1 rad=d2 ext=d3 pos 0 0 0.0 axs 0 0 1
sp1    -2
si2    0.0  17.10
si3    -20.9  20.9
m001    92235.50c    1.24586E-02    92238.50c    7.14589E-04
        92234.50c    1.22124E-04    92236.50c    5.85465E-05
        24000.50c    2.36368E-03    28000.50c    9.72543E-04
        26000.50c    8.46947E-03    13027.50c    2.41310E-07
         6000.50c    8.53175E-03    42000.50c    1.75452E-05
        25055.50c    1.92529E-04    29000.50c    2.28601E-05
         1001.50c    1.68879E-02    14000.50c    1.31162E-04
         7014.50c    8.86407E-06    17000.50c    3.15381E-08
        27059.50c    1.91158E-06     9019.50c    9.56367E-08
        41093.50c    6.58268E-03    75185.50c    1.79268E-03
        75187.50c    2.96844E-03    40000.60c    6.77221E-05
mt001  poly.01t
m002    24000.50c    1.33792E-03    28000.50c    5.36698E-04
        26000.50c    4.83114E-03    13027.50c    3.61610E-08
         8016.50c    7.29537E-05     6000.50c    1.83502E-02
        42000.50c    8.31085E-06    25055.50c    1.11178E-04
         5010.50c    6.42786E-02     5011.50c    5.61820E-03
        29000.50c    1.65023E-05    14000.50c    7.18065E-05
         7014.50c    7.65146E-04
m003    24000.50c    1.09042E-03    28000.50c    4.39889E-04
        26000.50c    3.93062E-03    13027.50c    2.18995E-08
         8016.50c    7.42849E-05     6000.50c    1.89717E-02
        42000.50c    6.84967E-06    25055.50c    9.14863E-05
         5010.50c    6.61607E-02     5011.50c    5.79328E-03
        29000.50c    1.36769E-05    14000.50c    5.90238E-05
         7014.50c    7.79108E-04
m004    24000.50c    1.96924E-03    28000.50c    8.27834E-04
        26000.50c    7.00839E-03     6000.50c    2.92381E-02
        42000.50c    1.07837E-05    25055.50c    1.68521E-04
        29000.50c    2.12798E-05    14000.50c    1.10902E-04
        41093.50c    1.14649E-06    75185.50c    8.45156E-04
        75187.50c    1.39947E-03     1001.50c    5.77025E-02
mt004  poly.01t
m005    24000.50c    1.23020E-03    28000.50c    5.03831E-04
        26000.50c    4.41486E-03    13027.50c    6.64439E-09
         6000.50c    4.62248E-05    42000.50c    7.78496E-06
        25055.50c    1.04531E-04    29000.50c    1.56082E-05
         1001.50c    7.92374E-06    14000.50c    6.72453E-05
        17000.50c    1.37412E-05     9019.50c    4.06918E-05
         4009.50c    6.02686E-02     8016.50c    6.02692E-02
mt005  beo.01t
m006    24000.50c    1.34010E-03    28000.50c    5.51999E-04
        26000.50c    4.80117E-03     6000.50c    3.48838E-02
        42000.50c    8.49406E-06    25055.50c    1.14338E-04
        29000.50c    1.70462E-05    14000.50c    7.34732E-05
         1001.50c    6.92679E-02
mt006  poly.01t
m007    24000.50c    1.48879E-03    28000.50c    6.16530E-04
        26000.50c    5.40542E-03    13027.50c    2.05818E-07
```

```
          6000.50c    2.57688E-05    42000.50c    9.03096E-06
         25055.50c    1.29349E-04    29000.50c    1.84149E-05
         14000.50c    8.31522E-05    27059.50c    6.19845E-08
m008     24000.50c    1.38559E-03    28000.50c    5.69315E-04
         26000.50c    5.01826E-03    13027.50c    1.15296E-07
          6000.50c    2.33990E-05    42000.50c    8.77287E-06
         25055.50c    1.21301E-04    29000.50c    1.80024E-05
         14000.50c    7.79830E-05    27059.50c    3.47226E-08
m009     24000.50c    1.11179E-03    28000.50c    4.59287E-04
         26000.50c    4.00823E-03    13027.50c    5.56063E-07
          6000.50c    2.22037E-02    42000.50c    5.99282E-06
         25055.50c    9.01010E-05    29000.50c    1.22497E-05
         14000.50c    5.84392E-05    27059.50c    1.49639E-07
         41093.50c    1.26664E-02     1001.50c    4.40863E-02
mt009  poly.01t
m010     24000.50c    1.05405E-03    28000.50c    4.29111E-04
         26000.50c    3.80602E-03    13027.50c    4.43953E-07
          6000.50c    2.31734E-02    42000.50c    5.97098E-06
         25055.50c    8.58105E-05    29000.50c    1.20693E-05
         14000.50c    5.62360E-05    27059.50c    1.17171E-07
         41093.50c    1.26664E-02     1001.50c    4.60166E-02
mt010  poly.01t
m011     24000.50c    1.11028E-03    28000.50c    4.74492E-04
         26000.50c    3.96917E-03    13027.50c    2.65302E-07
          6000.50c    1.99033E-02    42000.50c    6.14396E-06
         25055.50c    9.28327E-05    29000.50c    1.23920E-05
         14000.50c    5.75231E-05    27059.50c    7.68347E-08
         41093.50c    1.28029E-02     1001.50c    3.93452E-02
mt011  poly.01t
m012     24000.50c    1.12793E-03    28000.50c    4.74557E-04
         26000.50c    4.01593E-03    13027.50c    3.97810E-07
          6000.50c    1.90279E-02    42000.50c    6.13774E-06
         25055.50c    9.64403E-05    29000.50c    1.23657E-05
         14000.50c    6.56120E-05    27059.50c    1.15211E-07
         41093.50c    1.27878E-02     1001.50c    3.76525E-02
mt012  poly.01t
m013     24000.50c    1.58634E-03    28000.50c    6.39604E-04
         26000.50c    5.71986E-03    13027.50c    3.69429E-08
          6000.50c    1.12975E-04    42000.50c    9.86225E-06
         25055.50c    1.32259E-04    29000.50c    1.95954E-05
          1001.50c    1.13400E-04    14000.50c    8.53368E-05
         17000.50c    1.76362E-05     9019.50c    5.22015E-05
          4009.50c    5.72192E-02     8016.50c    5.72042E-02
mt013  beo.01t
m014     24000.50c    1.59460E-03    28000.50c    6.57134E-04
         26000.50c    5.71236E-03     6000.50c    3.42393E-02
         42000.50c    1.00846E-05    25055.50c    1.35911E-04
         29000.50c    2.02168E-05    14000.50c    8.73271E-05
          1001.50c    6.78742E-02
mt014  poly.01t
m015     24000.50c    1.29307E-03    28000.50c    5.24651E-04
         26000.50c    4.65382E-03    13027.50c    2.07959E-08
          6000.50c    3.51089E-02    42000.50c    8.07576E-06
         25055.50c    1.08474E-04    29000.50c    1.60844E-05
         14000.50c    6.99064E-05     1001.50c    6.97163E-02
mt015  poly.01t
m016     24000.50c    1.15100E-03    28000.50c    4.64793E-04
         26000.50c    4.14209E-03     6000.50c    3.38886E-02
         42000.50c    7.99345E-06    25055.50c    1.02512E-04
         29000.50c    1.66820E-05    14000.50c    6.61205E-05
          1001.50c    6.72952E-02
mt016  poly.01t
m017     24000.50c    1.17957E-03    28000.50c    4.76329E-04
         26000.50c    4.24488E-03     6000.50c    1.85933E-05
         42000.50c    8.19076E-06    25055.50c    1.05057E-04
         29000.50c    1.70944E-05    14000.50c    6.77630E-05
m018     24000.50c    1.19224E-03    28000.50c    4.81505E-04
         26000.50c    4.29029E-03     8016.50c    6.58041E-03
          6000.50c    2.41833E-02    42000.50c    8.28272E-06
         25055.50c    1.06117E-04     5010.50c    4.33688E-04
          5011.50c    1.75941E-03    29000.50c    1.72406E-05
         14000.50c    6.84038E-05     1001.50c    5.45833E-02
mt018  poly.01t
m019     24000.50c    1.17005E-03    28000.50c    4.72484E-04
         26000.50c    1.26871E-02    13027.50c    7.19780E-08
         11023.50c    2.04150E-06     6000.50c    8.20132E-05
```

```
        42000.50c    8.12499E-06    25055.50c    1.51106E-04
        29000.50c    1.69570E-05     1001.50c    2.57075E-02
        14000.50c    6.72155E-05     3006.50c    1.89469E-03
         3007.50c    2.38483E-02    12000.50c    3.99522E-08
        20000.50c    1.23560E-06    19000.50c    2.64918E-07
m020    24000.50c    1.18909E-03    28000.50c    4.80175E-04
        26000.50c    4.27914E-03     8016.50c    6.85004E-03
         6000.50c    2.51732E-02    42000.50c    8.25653E-06
        25055.50c    1.05905E-04     5010.50c    4.53602E-04
         5011.50c    1.82954E-03    29000.50c    1.72319E-05
        14000.50c    6.83105E-05     1001.50c    5.68178E-02
mt020  poly.01t
m021    92235.50c    1.24572E-02    92238.50c    7.14507E-04
        92234.50c    1.22110E-04    92236.50c    5.85398E-05
        24000.50c    2.36978E-03    28000.50c    9.75721E-04
        26000.50c    8.49047E-03    13027.50c    2.76204E-07
         6000.50c    8.37397E-03    42000.50c    1.75475E-05
        25055.50c    1.92968E-04    29000.50c    2.28957E-05
         1001.50c    1.65741E-02    14000.50c    1.31566E-04
         7014.50c    8.86283E-06    17000.50c    3.15343E-08
        27059.50c    1.92137E-06     9019.50c    9.56254E-08
        41093.50c    6.58190E-03    75185.50c    1.79247E-03
        75187.50c    2.96809E-03    40000.60c    6.77141E-05
mt021  poly.01t
m022    24000.50c    7.10454E-04    28000.50c    2.91262E-04
        26000.50c    2.54807E-03     6000.50c    3.73175E-02
        42000.50c    4.60640E-06    25055.50c    6.12551E-05
        29000.50c    9.33935E-06    14000.50c    3.93991E-05
         1001.50c    7.41222E-02
mt022  poly.01t
m023    24000.50c    7.17795E-04    28000.50c    2.79261E-04
        26000.50c    2.61376E-03    13027.50c    3.76091E-08
         6000.50c    4.02622E-05    42000.50c    4.47900E-06
        25055.50c    5.88114E-05    29000.50c    8.90427E-06
         1001.50c    8.34430E-06    14000.50c    3.82095E-05
        17000.50c    1.44705E-05     9019.50c    4.28515E-05
         4009.50c    6.34673E-02     8016.50c    6.34680E-02
mt023  beo.01t
totnu
phys:n  20.0  0.0
prdmp      J   40
print
```

In the above MCNP input listing the seven control rods are identified by the by the string “cr-01” through “cr-07” in the comment field (after the “$” sign) of the region cards. Unfortunately, these are not the same numbers that are used to identify the control rods in the Section 3.1 (see Figure 9). The correspondence between the control rods mentioned in Section 3.1 and the rods described in the above MCNP listing is given in Table 33a.

Table 33a. Section 3.1 and Listing Rod Correspondence.

Control Rod Identifier	
Section 3.1	MCNP Listing
M1	cr-05
M2	cr-04
M3	cr-03
M4	cr-02
M5	cr-01
M6	cr-07

HEU-MET-MIXED-012

M7	cr-06

A.3 TWODANT Input Listings

A sample TWODANT input listing is not provided here because none of the TWODANT calculations utilized a standard multigroup cross section set. However, most of the sensitivity results presented in Section 2 were computed using TWODANT with a 101 group cross section set that was generated from ENDF/B-V data using the MC^2-2 code[a] specifically for this loading configuration. This cross section set incorporated weighting regions for the following nine regions of Assembly 20D: Core, Axial Plenum, Axial Drawer, Axial Shield, Vessel, BeO Reflector, Polyethylene, Radial Shield, and Empty Matrix.

[a] H. Henryson II, B. J. Toppel, and C. G. Stenberg, "MC^2-2: A Code to Calculate Fast Neutron Spectra and Multigroup Cross Sections," ANL-8144, Argonne National Laboratory (1976).

A.4 MONK8B Input Listings

Calculations for the ZPPR-20D benchmark have not been performed using the MONK code.

A.5 VIM Input Listings

A sample VIM input is shown below for the cylindrical benchmark model of ZPPR-20 Assembly D. This input was used with continuous energy ENDF/B-V cross sections for all nuclides. The input for the calculations with continuous energy ENDF/B-VI cross sections is the same except that some elements are replaced by their naturally occurring isotopes. All the cross sections correspond to 300 K. All the calculations were run with VIM Version 4.0. In the examples shown here, there are 10,000 neutron histories per generation and 400 active generations, after skipping 40.

```
VIM with ENDF/B-V Data Input Listing, Table 34.

   111111111  rz20d129v5 - zppr-20d loading 129 - rz - v5 xs - no psr
   400     3     0    40     0     0
 10000 10000     4     0     0     0
     1     1     0     0    50     0
    39    23    23     3    70 10000
 999999999.0 1.00000E-05 2.75000E+02 1.00000E+00 1.00000E-05 1.99900E+07
 9.50000E-01 1.00000E+00 1.00000E+03 0.00000E+00
     1     0     0     0     3     0     0     0     0     0     1     0
 30300 40300 60300 80300210300220300230300240300250300260300270300280300
290300310300320300340300350300370300380300400300410300420300450300520300
540300550300560300570300680300730300740300800300850300860300870300880300
940300950300970300


    0     0    46
  CYL    1   0.00000   0.00000    -400.0     800.0  17.15926
  RPP    2  -1.27000   1.27000   8.28675  13.81125    -300.0     300.0
  RPP    3  -1.33354   1.33354  -2.76225   2.76225    -300.0     300.0
  RPP    4  -1.27000   1.27000 -13.81125  -8.28675    -300.0     300.0
  RPP    5 -10.95382  -8.28675   2.76225   8.28675    -300.0     300.0
  RPP    6 -10.95382  -8.28675  -8.28675  -2.76225    -300.0     300.0
  RPP    7   8.28675  10.95382   2.76225   8.28675    -300.0     300.0
  RPP    8   8.28675  10.95382  -8.28675  -2.76225    -300.0     300.0
  RPP    9    -400.0     400.0    -400.0     400.0   0.00000  20.97024
  RPP   10    -400.0     400.0    -400.0     400.0 -20.97263   0.00000
  RPP   11    -400.0     400.0    -400.0     400.0  20.97024  36.21024
  RPP   12    -400.0     400.0    -400.0     400.0 -36.21263 -20.97263
  RPP   13    -400.0     400.0    -400.0     400.0  36.21024  55.97144
  RPP   14    -400.0     400.0    -400.0     400.0  55.97144  86.43620
  RPP   15    -400.0     400.0    -400.0     400.0 -112.4915 -36.21263
  CYL   16   0.00000   0.00000    -400.0     800.0  19.43608
  CYL   17   0.00000   0.00000    -400.0     800.0  27.06478
  RPP   18    -400.0     400.0    -400.0     400.0  20.97024  38.19144
  RPP   19    -400.0     400.0    -400.0     400.0 -38.19144 -20.97263
  RPP   20    -400.0     400.0    -400.0     400.0  38.19144  86.43620
  RPP   21    -400.0     400.0    -400.0     400.0 -112.4915 -38.19144
  RPP   22    -400.0     400.0    -400.0     400.0 -20.41144  20.41144
  RPP   23    -400.0     400.0    -400.0     400.0  20.41144  35.65144
  RPP   24    -400.0     400.0    -400.0     400.0 -35.65144 -20.41144
  CYL   25   0.00000   0.00000    -400.0     800.0  29.41740
  RPP   26    -400.0     400.0    -400.0     400.0 -35.65144  35.65144
  RPP   27    -400.0     400.0    -400.0     400.0  35.65144  86.43620
  RPP   28    -400.0     400.0    -400.0     400.0 -112.4915 -35.65144
  CYL   29   0.00000   0.00000    -400.0     800.0  41.94221
  RPP   30    -400.0     400.0    -400.0     400.0 -30.48000  30.48000
  RPP   31    -400.0     400.0    -400.0     400.0  30.48000  86.43620
  RPP   32    -400.0     400.0    -400.0     400.0 -112.4915 -30.48000
  CYL   33   0.00000   0.00000    -400.0     800.0  52.96396
  RPP   34    -400.0     400.0    -400.0     400.0 -112.4915  86.43620
  RPP   35    -400.0     400.0    -400.0     400.0  86.43620  91.51620
  RPP   36    -400.0     400.0    -400.0     400.0 -117.5715 -112.4915
  CYL   37   0.00000   0.00000    -400.0     800.0  59.85288
  RPP   38    -400.0     400.0    -400.0     400.0 -60.96000  60.96000
  RPP   39    -400.0     400.0    -400.0     400.0  60.96000  91.44000
  RPP   40    -400.0     400.0    -400.0     400.0 -121.9200 -60.96000
  RPP   41    -400.0     400.0    -400.0     400.0 -121.9200 -117.5715
  RPP   42    -400.0     400.0    -400.0     400.0  91.44000  91.51620
  CYL   43   0.00000   0.00000 -121.9200 213.43620  59.85288
  CYL   44   0.00000   0.00000 -121.9200 243.84000 239.99863
```

```
CYL   45   0.00000   0.00000    -400.0     800.0     400.0
CYL   46   0.00000   0.00000     -21.0      42.0  17.15926
RPP   47    -400.0     400.0    -400.0     400.0   0.00000  20.41144
RPP   48    -400.0     400.0    -400.0     400.0 -20.41144   0.00000
RPP   49    -400.0     400.0    -400.0     400.0  20.41144  36.21024
RPP   50    -400.0     400.0    -400.0     400.0 -36.21263 -20.41144
RPP   51    -400.0     400.0    -400.0     400.0 -112.4915 -55.97144
RPP   52    -400.0     400.0    -400.0     400.0 -55.97144 -36.21263
END
CRS   20     +1     -2     -3     -4     -5     -6     -7     -8     +9
RS1   20     +2    +47
RS2   20     +3    +47
RS3   20     +4    +47
RS4   20     +5    +47
RS5   20     +6    +47
RS6   20     +7    +47
RS7   20     +8    +47
CRM   20     +1     -2     -3     -4     -5     -6     -7     -8    +10
RM1   20     +2    +48
RM2   20     +3    +48
RM3   20     +4    +48
RM4   20     +5    +48
RM5   20     +6    +48
RM6   20     +7    +48
RM7   20     +8    +48
PLS   20     +1     -2     -3     -4     -5     -6     -7     -8    +11
RU1   20     +2    +49
RU2   20     +3    +49
RU3   20     +4    +49
RU4   20     +5    +49
RU5   20     +6    +49
RU6   20     +7    +49
RU7   20     +8    +49
PLM   20     +1     -2     -3     -4     -5     -6     -7     -8    +12
RL1   20     +2    +50
RL2   20     +3    +50
RL3   20     +4    +50
RL4   20     +5    +50
RL5   20     +6    +50
RL6   20     +7    +50
RL7   20     +8    +50
DS1   20     +1     -2     -3     -4     -5     -6     -7     -8    +13
UF1   20     +2    +13
UF2   20     +3    +13
UF3   20     +4    +13
UF4   20     +5    +13
UF5   20     +6    +13
UF6   20     +7    +13
UF7   20     +8    +13
DS2   20     +1    +14
DM1   20     +1    +51
LR1   20     +2    +52
LR2   20     +4    +52
DM2   20     +1     -2     -4    +52
VSS   20     -1    +16     +9
VSM   20     -1    +16    +10
VSU   20     -1    +16    +18
VSL   20     -1    +16    +19
VVU   20     -1    +16    +20
VVL   20     -1    +16    +21
BEO   20    -16    +17    +22
PBS   20    -16    +17    +23
PBM   20    -16    +17    +24
PBR   20    -17    +25    +26
VBS   20    -16    +25    +27
VBM   20    -16    +25    +28
PRR   20    -25    +29    +30
VRS   20    -25    +29    +31
VRM   20    -25    +29    +32
VRR   20    -29    +33    +34
SAS   20    +33    +35
MAS   20    +33    +36
RSC   20    -33    +37    +38
RSS   20    -33    +37    +39
RSM   20    -33    +37    +40
M01   20    +33    +41
```

```
  M02   20    -33    +37    +42
  M03   20    -43    +44
  LEK   20    -44    +45
  END
     1         1.0     2         1.0     3         1.0     4         1.0
     5         1.0     6         1.0     7         1.0     8         1.0
     9         1.0    10         1.0    11         1.0    12         1.0
    13         1.0    14         1.0    15         1.0    16         1.0
    17         1.0    18         1.0    19         1.0    20         1.0
    21         1.0    22         1.0    23         1.0    24         1.0
    25         1.0    26         1.0    27         1.0    28         1.0
    29         1.0    30         1.0    31         1.0    32         1.0
    33         1.0    34         1.0    35         1.0    36         1.0
    37         1.0    38         1.0    39         1.0    40         1.0
    41         1.0    42         1.0    43         1.0    44         1.0
    45         1.0    46         1.0    47         1.0    48         1.0
    49         1.0    50         1.0    51         1.0    52         1.0
    53         1.0    54         1.0    55         1.0    56         1.0
    57         1.0    58         1.0    59         1.0    60         1.0
    61         1.0    62         1.0    63         1.0    64         1.0
    65         1.0    66         1.0    67         1.0    68         1.0
    69         1.0
     1   101   1              2   500   5              3   200   2
     4   500   5              5   200   2              6   200   2
     7   200   2              8   200   2              9  2100  21
    10  2300  23             11   300   3             12  2300  23
    13   300   3             14   300   3             15   300   3
    16   300   3             17   400   4             18  2200  22
    19   500   5             20  2200  22             21   500   5
    22   500   5             23   500   5             24   500   5
    25   400   4             26   300   3             27   600   6
    28   300   3             29   600   6             30   600   6
    31   600   6             32   600   6             33   700   7
    34   700   7             35   500   5             36   700   7
    37   500   5             38   500   5             39   500   5
    40   500   5             41   700   7             42   800   8
    43   300   3             44   300   3             45   800   8
    46   900   9             47  1000  10             48  1100  11
    49  1200  12             50   700   7             51   800   8
    52  1300  13             53  1400  14             54  1400  14
    55  1500  15             56   700   7             57   800   8
    58  1600  16             59  1700  17             60  1700  17
    61  1700  17             62  1800  18             63  1800  18
    64  1900  19             65  2000  20             66  2000  20
    67  1700  17             68  1700  17             69  1700  17
    70        -1
 30300 40300 60300 8030021030022030023030024030027030028030029030031030032030034030085030086030
350300380300420300540300560300570300680300730300740300800300850300860300
870300880300970300

210300220300230300240300260300270300280300290300310300320300340300380300   2
420300


210300220300230300240300260300270300280300290300310300320300340300380300   3
420300


210300220300230300270300280300290300340300380300680300730300740300970300   4



210300220300230300240300270300280300290300340300350300380300540300570300   5
940300950300


210300220300230300270300280300290300340300380300970300                     6



210300220300230300240300270300280300290300340300380300560300               7



210300220300230300240300270300280300290300340300380300560300               8
```

```
2103002203002303002403002703002803002903003403003803005603006803009703009
2103002203002303002403002703002803002903003403003803005603006803009703009
2103002203002303002403002703002803002903003403003803005603006803009703009
2103002203002303002403002703002803002903003403003803005603006803009703009
2103002203002303002403002703002803002903003403003503003803005403005703009
940300950300970300
2103002203002303002703002803002903003403003803005403005703009703009
2103002203002303002403002703002803002903003403003803005403005703009703009
2103002203002303002703002803002903003403003803005403005703009703009
2103002203002303002603002703002803002903003103003203003403003803009703009
2103002203002303002403002503002703002803002903003403003503003803004003009
4103004503005203005503009
2103002203002303002603002703002803002903003103003203003403003803009703009
 30309 40309 60309 80300210300220300230300240300270300280300290300340300
3503003803004203005403005603005703006803007303007403008003008503008603009
8703008803009703009
2103002203002303002703002803002903003403003803009703009
2103002203002303002403002703002803002903003403003503003803005403005703009
940300950300
 1.24586E-02 7.14589E-04 1.22124E-04 5.85465E-05 2.36368E-03 9.72543E-04   1
 8.46947E-03 2.41310E-07 8.53175E-03 1.75452E-05 1.92529E-04 2.28601E-05
 1.80270E-08 1.31162E-04 8.86407E-06 3.15381E-08 1.91158E-06 9.56367E-08
 6.58268E-03 1.79268E-03 2.96844E-03 3.48430E-05 7.63227E-06 1.16279E-05
 1.17362E-05 1.88267E-06 1.68879E-02
 1.33792E-03 5.36698E-04 4.83114E-03 3.61610E-08 7.29537E-05 1.83502E-02   2
 8.31085E-06 1.11178E-04 6.42786E-02 5.61820E-03 1.65023E-05 7.18065E-05
 7.65146E-04
 1.09042E-03 4.39889E-04 3.93062E-03 2.18995E-08 7.42849E-05 1.89717E-02   3
 6.84967E-06 9.14863E-05 6.61607E-02 5.79328E-03 1.36769E-05 5.90238E-05
 7.79108E-04
 1.96924E-03 8.27834E-04 7.00839E-03 2.92381E-02 1.07837E-05 1.68521E-04   4
 2.12798E-05 1.10902E-04 1.14649E-06 8.45156E-04 1.39947E-03 5.77025E-02
 1.23020E-03 5.03831E-04 4.41486E-03 6.64439E-09 4.62248E-05 7.78496E-06   5
```

```
1.04531E-04 1.56082E-05 7.92374E-06 6.72453E-05 1.37412E-05 4.06918E-05
6.02686E-02 6.02692E-02
1.34010E-03 5.51999E-04 4.80117E-03 3.48838E-02 8.49406E-06 1.14338E-04   6
1.70462E-05 7.34732E-05 6.92679E-02
1.48879E-03 6.16530E-04 5.40542E-03 2.05818E-07 2.57688E-05 9.03096E-06   7
1.29349E-04 1.84149E-05 8.31522E-05 6.19845E-08
1.38559E-03 5.69315E-04 5.01826E-03 1.15296E-07 2.33990E-05 8.77287E-06   8
1.21301E-04 1.80024E-05 7.79830E-05 3.47226E-08
1.11179E-03 4.59287E-04 4.00823E-03 5.56063E-07 2.22037E-02 5.99282E-06   9
9.01010E-05 1.22497E-05 5.84392E-05 1.49639E-07 1.26664E-02 4.40863E-02
1.05405E-03 4.29111E-04 3.80602E-03 4.43953E-07 2.31734E-02 5.97098E-06  10
8.58105E-05 1.20693E-05 5.62360E-05 1.17171E-07 1.26664E-02 4.60166E-02
1.11028E-03 4.74492E-04 3.96917E-03 2.65302E-07 1.99033E-02 6.14396E-06  11
9.28327E-05 1.23920E-05 5.75231E-05 7.68347E-08 1.28029E-02 3.93452E-02
1.12793E-03 4.74557E-04 4.01593E-03 3.97810E-07 1.90279E-02 6.13774E-06  12
9.64403E-05 1.23657E-05 6.56120E-05 1.15211E-07 1.27878E-02 3.76525E-02
1.58634E-03 6.39604E-04 5.71986E-03 3.69429E-08 1.12975E-04 9.86225E-06  13
1.32259E-04 1.95954E-05 1.04802E-05 8.53368E-05 1.76362E-05 5.22015E-05
5.72192E-02 5.72042E-02 1.02920E-04
1.59460E-03 6.57134E-04 5.71236E-03 3.42393E-02 1.00846E-05 1.35911E-04  14
2.02168E-05 8.73271E-05 6.78742E-02
1.29307E-03 5.24651E-04 4.65382E-03 2.07959E-08 3.51089E-02 8.07576E-06  15
1.08474E-04 1.60844E-05 6.99064E-05 6.97163E-02
1.15100E-03 4.64793E-04 4.14209E-03 3.38886E-02 7.99345E-06 1.02512E-04  16
1.66820E-05 6.61205E-05 6.72952E-02
1.17957E-03 4.76329E-04 4.24488E-03 1.85933E-05 8.19076E-06 1.05057E-04  17
1.70944E-05 6.77630E-05
1.19224E-03 4.81505E-04 4.29029E-03 6.58041E-03 2.41833E-02 8.28272E-06  18
1.06117E-04 4.33688E-04 1.75941E-03 1.72406E-05 6.84038E-05 5.45833E-02
1.17005E-03 4.72484E-04 1.26871E-02 7.19780E-08 2.04150E-06 8.20132E-05  19
8.12499E-06 1.51106E-04 1.69570E-05 2.57075E-02 6.72155E-05 1.89469E-03
2.38483E-02 3.99522E-08 1.23560E-06 2.64918E-07
1.18909E-03 4.80175E-04 4.27914E-03 6.85004E-03 2.51732E-02 8.25653E-06  20
1.05905E-04 4.53602E-04 1.82954E-03 1.72319E-05 6.83105E-05 5.68178E-02
1.24572E-02 7.14507E-04 1.22110E-04 5.85398E-05 2.36978E-03 9.75721E-04  21
8.49047E-03 2.76204E-07 8.37397E-03 1.75475E-05 1.92968E-04 2.28957E-05
1.80249E-08 1.31566E-04 8.86283E-06 3.15343E-08 1.92137E-06 9.56254E-08
6.58190E-03 1.79247E-03 2.96809E-03 3.48389E-05 7.63137E-06 1.16265E-05
1.17348E-05 1.88245E-06 1.65741E-02
7.10454E-04 2.91262E-04 2.54807E-03 3.73175E-02 4.60640E-06 6.12551E-05  22
9.33935E-06 3.93991E-05 7.41222E-02
7.17795E-04 2.79261E-04 2.61376E-03 3.76091E-08 4.02622E-05 4.47900E-06  23
5.88114E-05 8.90427E-06 8.34430E-06 3.82095E-05 1.44705E-05 4.28515E-05
6.34673E-02 6.34680E-02
1.00000e+05 6.25000e-01 1.00000e-05
```

APPENDIX B: SPECTRUM AND NEUTRON BALANCE FROM VIM

The spectrum and neutron balance were not determined for ZPPR Assembly 20D Loading 129. However, the spectra and neutron balance for this assembly, based on the as-built (heterogeneous) model, will be only very slightly different from the 20D subcritical loading configuration results (see SUB-HEU-MET-MIXED-001, Appendix B) for the reasons mentioned in Sections 2.2 and 2.3 of this document.

APPENDIX C: MCNP MODEL OF AS-BUILT ZPPR-20 ASSEMBLY D

A sample MCNP input is shown below for the as-built model of ZPPR-20 Assembly D. This input was used with continuous energy ENDF/B-V cross sections for all nuclides by using the suffix 50c with the nuclide ID. The input for the calculations with continuous energy ENDF/B-VI cross sections is the same except that the nuclide ID suffix is 66c and some elements are replaced by their naturally occurring isotopes. The calculations used 10000 neutron histories per generation and 360 active generations, after skipping 40.

```
ZPPR-20D   LOADING 129   10/07/88 - as-built - v5 xs
C   CELL CARDS
00001   1  0.3030146E-01    -2     1    -4     3    -6     5 u=001  imp:n=1
00002   1  0.3030146E-01    -2     1    -8     7    -6     5 u=001  imp:n=1
00003   2  0.7570860E-01    -9     1    -7     4    -6     5 u=001  imp:n=1
00004   2  0.7570860E-01    -2    10    -7     4    -6     5 u=001  imp:n=1
00005   3  0.8540120E-01    -2     1    -4     3   -11     6 u=001  imp:n=1
00006   3  0.8540120E-01    -2     1    -8     7   -11     6 u=001  imp:n=1
00007   3  0.8540120E-01    -9     1    -7     4   -11     6 u=001  imp:n=1
00008   3  0.8540120E-01    -2    10    -7     4   -11     6 u=001  imp:n=1
00009   4  0.7332760E-01   -13    12   -14     4   -15     5 u=001  imp:n=1
00010   5  0.3966184E-01   -13    12   -14     4   -11    16 u=001  imp:n=1
00011   6  0.3747366E-01   -17    12   -14    18   -16    15 u=001  imp:n=1
00012   6  0.3747366E-01   -13    19   -14    18   -16    15 u=001  imp:n=1
00013   6  0.3747366E-01   -13    12   -18     4   -16    15 u=001  imp:n=1
00014   7  0.8235419E-01   -20    17   -21    18   -22    15 u=001  imp:n=1
00015   7  0.8235419E-01   -20    17   -21    18   -24    23 u=001  imp:n=1
00016   8  0.7986135E-01   -20    17   -21    25   -23    22 u=001  imp:n=1
00017   8  0.7986135E-01   -20    17   -26    18   -23    22 u=001  imp:n=1
00018   9  0.6943934E-01   -27    17   -25    26   -23    22 u=001  imp:n=1
00019   9  0.6943934E-01   -20    28   -25    26   -23    22 u=001  imp:n=1
00020  10  0.4603587E-01   -28    27   -25    26   -23    22 u=001  imp:n=1
00021  11  0.7961518E-01   -30    29   -21    18   -22    15 u=001  imp:n=1
00022  11  0.7961518E-01   -30    29   -21    18   -32    31 u=001  imp:n=1
00023  12  0.7714468E-01   -30    29   -21    25   -31    22 u=001  imp:n=1
00024  12  0.7714468E-01   -30    29   -26    18   -31    22 u=001  imp:n=1
00025  13  0.6712964E-01   -33    29   -25    26   -31    22 u=001  imp:n=1
00026  13  0.6712964E-01   -30    34   -25    26   -31    22 u=001  imp:n=1
00027  14  0.4579853E-01   -34    33   -25    26   -31    22 u=001  imp:n=1
00028  11  0.7961518E-01   -30    29   -21    18   -35    32 u=001  imp:n=1
00029  11  0.7961518E-01   -30    29   -21    18   -37    36 u=001  imp:n=1
00030  12  0.7714468E-01   -30    29   -21    25   -36    35 u=001  imp:n=1
00031  12  0.7714468E-01   -30    29   -26    18   -36    35 u=001  imp:n=1
00032  13  0.6712964E-01   -33    29   -25    26   -36    35 u=001  imp:n=1
00033  13  0.6712964E-01   -30    34   -25    26   -36    35 u=001  imp:n=1
00034  14  0.4579853E-01   -34    33   -25    26   -36    35 u=001  imp:n=1
00035  15  0.8003452E-01   -39    38   -21    18   -22    15 u=001  imp:n=1
00036  15  0.8003452E-01   -39    38   -21    18   -24    23 u=001  imp:n=1
00037  16  0.7744373E-01   -39    38   -21    25   -23    22 u=001  imp:n=1
00038  16  0.7744373E-01   -39    38   -26    18   -23    22 u=001  imp:n=1
00039  17  0.6733980E-01   -40    38   -25    26   -23    22 u=001  imp:n=1
00040  17  0.6733980E-01   -39    41   -25    26   -23    22 u=001  imp:n=1
00041  18  0.4487970E-01   -41    40   -25    26   -23    22 u=001  imp:n=1
00042  19  0.7776510E-01   -43    42   -21    18   -22    15 u=001  imp:n=1
00043  19  0.7776510E-01   -43    42   -21    18   -32    31 u=001  imp:n=1
00044  20  0.7523151E-01   -43    42   -21    25   -31    22 u=001  imp:n=1
00045  20  0.7523151E-01   -43    42   -26    18   -31    22 u=001  imp:n=1
00046  21  0.6542969E-01   -44    42   -25    26   -31    22 u=001  imp:n=1
00047  21  0.6542969E-01   -43    45   -25    26   -31    22 u=001  imp:n=1
00048  22  0.4487471E-01   -45    44   -25    26   -31    22 u=001  imp:n=1
00049  19  0.7776510E-01   -43    42   -21    18   -35    32 u=001  imp:n=1
00050  19  0.7776510E-01   -43    42   -21    18   -37    36 u=001  imp:n=1
00051  20  0.7523151E-01   -43    42   -21    25   -36    35 u=001  imp:n=1
00052  20  0.7523151E-01   -43    42   -26    18   -36    35 u=001  imp:n=1
00053  21  0.6542969E-01   -44    42   -25    26   -36    35 u=001  imp:n=1
00054  21  0.6542969E-01   -43    45   -25    26   -36    35 u=001  imp:n=1
00055  22  0.4487471E-01   -45    44   -25    26   -36    35 u=001  imp:n=1
00056  23  0.1232400E+00   -47    46   -48    18   -49    15 u=001  imp:n=1
00057  24  0.1232187E+00   -47    46   -48    18   -50    49 u=001  imp:n=1
00058  19  0.7776510E-01   -52    51   -21    18   -22    15 u=001  imp:n=1
```

```
00059  19  0.7776510E-01   -52    51   -21    18   -32    31 u=001  imp:n=1
00060  20  0.7523151E-01   -52    51   -21    25   -31    22 u=001  imp:n=1
00061  20  0.7523151E-01   -52    51   -26    18   -31    22 u=001  imp:n=1
00062  21  0.6542969E-01   -53    51   -25    26   -31    22 u=001  imp:n=1
00063  21  0.6542969E-01   -52    54   -25    26   -31    22 u=001  imp:n=1
00064  22  0.4487471E-01   -54    53   -25    26   -31    22 u=001  imp:n=1
00065  19  0.7776510E-01   -52    51   -21    18   -35    32 u=001  imp:n=1
00066  19  0.7776510E-01   -52    51   -21    18   -37    36 u=001  imp:n=1
00067  20  0.7523151E-01   -52    51   -21    25   -36    35 u=001  imp:n=1
00068  20  0.7523151E-01   -52    51   -26    18   -36    35 u=001  imp:n=1
00069  21  0.6542969E-01   -53    51   -25    26   -36    35 u=001  imp:n=1
00070  21  0.6542969E-01   -52    54   -25    26   -36    35 u=001  imp:n=1
00071  22  0.4487471E-01   -54    53   -25    26   -36    35 u=001  imp:n=1
00072  15  0.8003452E-01   -56    55   -21    18   -22    15 u=001  imp:n=1
00073  15  0.8003452E-01   -56    55   -21    18   -24    23 u=001  imp:n=1
00074  16  0.7744373E-01   -56    55   -21    25   -23    22 u=001  imp:n=1
00075  16  0.7744373E-01   -56    55   -26    18   -23    22 u=001  imp:n=1
00076  17  0.6733980E-01   -57    55   -25    26   -23    22 u=001  imp:n=1
00077  17  0.6733980E-01   -56    58   -25    26   -23    22 u=001  imp:n=1
00078  18  0.4487970E-01   -58    57   -25    26   -23    22 u=001  imp:n=1
00079  11  0.7961518E-01   -60    59   -21    18   -22    15 u=001  imp:n=1
00080  11  0.7961518E-01   -60    59   -21    18   -32    31 u=001  imp:n=1
00081  12  0.7714468E-01   -60    59   -21    25   -31    22 u=001  imp:n=1
00082  12  0.7714468E-01   -60    59   -26    18   -31    22 u=001  imp:n=1
00083  13  0.6712964E-01   -61    59   -25    26   -31    22 u=001  imp:n=1
00084  13  0.6712964E-01   -60    62   -25    26   -31    22 u=001  imp:n=1
00085  14  0.4579853E-01   -62    61   -25    26   -31    22 u=001  imp:n=1
00086  11  0.7961518E-01   -60    59   -21    18   -35    32 u=001  imp:n=1
00087  11  0.7961518E-01   -60    59   -21    18   -37    36 u=001  imp:n=1
00088  12  0.7714468E-01   -60    59   -21    25   -36    35 u=001  imp:n=1
00089  12  0.7714468E-01   -60    59   -26    18   -36    35 u=001  imp:n=1
00090  13  0.6712964E-01   -61    59   -25    26   -36    35 u=001  imp:n=1
00091  13  0.6712964E-01   -60    62   -25    26   -36    35 u=001  imp:n=1
00092  14  0.4579853E-01   -62    61   -25    26   -36    35 u=001  imp:n=1
00093   7  0.8235419E-01   -19    63   -21    18   -22    15 u=001  imp:n=1
00094   7  0.8235419E-01   -19    63   -21    18   -24    23 u=001  imp:n=1
00095   8  0.7986135E-01   -19    63   -21    25   -23    22 u=001  imp:n=1
00096   8  0.7986135E-01   -19    63   -26    18   -23    22 u=001  imp:n=1
00097   9  0.6943934E-01   -64    63   -25    26   -23    22 u=001  imp:n=1
00098   9  0.6943934E-01   -19    65   -25    26   -23    22 u=001  imp:n=1
00099  10  0.4603587E-01   -65    64   -25    26   -23    22 u=001  imp:n=1
00100  25  0.1201037E+00   -66    17   -48    18   -67    24 u=001  imp:n=1
00101  26  0.7164290E-01   -29    20   -48    18   -68    15 u=001  imp:n=1
00102  27  0.1212447E+00   -69    29   -48    18   -70    37 u=001  imp:n=1
00103  28  0.1187656E+00   -38    30   -48    18   -49    15 u=001  imp:n=1
00104  29  0.1183522E+00   -71    69   -48    18   -70    37 u=001  imp:n=1
00105  30  0.5464445E-01   -42    39   -48    18   -49    15 u=001  imp:n=1
00106  26  0.7164290E-01   -46    71   -48    18   -68    15 u=001  imp:n=1
00107  26  0.7164290E-01   -51    47   -48    18   -68    15 u=001  imp:n=1
00108  29  0.1183522E+00   -72    51   -48    18   -70    37 u=001  imp:n=1
00109  30  0.5464445E-01   -55    52   -48    18   -49    15 u=001  imp:n=1
00110  27  0.1212447E+00   -73    72   -48    18   -70    37 u=001  imp:n=1
00111  28  0.1187656E+00   -59    56   -48    18   -49    15 u=001  imp:n=1
00112  26  0.7164290E-01   -63    73   -48    18   -68    15 u=001  imp:n=1
00113  25  0.1201037E+00   -74    63   -48    18   -67    24 u=001  imp:n=1
00114  31  0.2714513E-01   -75    17   -48    18   -76    70 u=001  imp:n=1
00115  32  0.8823003E-01   -75    17   -48    18   -77    76 u=001  imp:n=1
00116  33  0.8829426E-01   -78    17   -48    18   -79    77 u=001  imp:n=1
00117  33  0.8829426E-01   -75    80   -48    18   -79    77 u=001  imp:n=1
00118   0                  -12     9   -14     4   -11     6 u=001 imp:n=1
00119   0                  -10    13   -14     4   -11     6 u=001 imp:n=1
00120   0                  -10     9    -7    14   -11     5 u=001 imp:n=1
00121   0                  -29    20   -25    48   -24    22 u=001 imp:n=1
00122   0                  -38    30   -25    48   -49    22 u=001 imp:n=1
00123   0                  -42    39   -25    48   -49    22 u=001 imp:n=1
00124   0                  -51    43   -25    48   -36    22 u=001 imp:n=1
00125   0                  -55    52   -25    48   -24    22 u=001 imp:n=1
00126   0                  -59    56   -25    48   -24    22 u=001 imp:n=1
00127   0                  -63    60   -25    48   -24    22 u=001 imp:n=1
00128   0                  -71    43   -48    26   -36    22 u=001 imp:n=1
00129   0                  -73    60   -48    26   -36    22 u=001 imp:n=1
00130   0                  -73    60   -48    18   -22    15 u=001 imp:n=1
00131   0                  -38    30   -25    18   -23    49 u=001 imp:n=1
00132   0                  -71    43   -48    18   -22    15 u=001 imp:n=1
00133   0                  -42    39   -25    18   -23    49 u=001 imp:n=1
00134   0                  -63    60   -21    48   -22    15 u=001 imp:n=1
```

```
00135   0                  -59    56   -21    48   -22    15 u=001 imp:n=1
00136   0                  -55    52   -21    48   -22    15 u=001 imp:n=1
00137   0                  -51    43   -21    48   -22    15 u=001 imp:n=1
00138   0                  -42    39   -21    48   -22    15 u=001 imp:n=1
00139   0                  -38    30   -21    48   -22    15 u=001 imp:n=1
00140   0                  -55    52   -48    18   -23    49 u=001 imp:n=1
00141   0                  -59    56   -48    18   -23    49 u=001 imp:n=1
00142   0                  -29    20   -21    48   -22    15 u=001 imp:n=1
00143   0                  -10    13   -14     4    -6     5 u=001 imp:n=1
00144   0                  -12     9   -14     4    -6     5 u=001 imp:n=1
00145   0                  -59    56   -48    18   -24    23 u=001 imp:n=1
00146   0                  -55    52   -48    18   -24    23 u=001 imp:n=1
00147   0                  -42    39   -25    18   -24    23 u=001 imp:n=1
00148   0                  -38    30   -25    18   -24    23 u=001 imp:n=1
00149   0                  -73    60   -48    18   -37    36 u=001 imp:n=1
00150   0                  -71    43   -48    18   -37    36 u=001 imp:n=1
00151   0                  -59    52   -21    18   -37    36 u=001 imp:n=1
00152   0                  -51    43   -21    48   -37    36 u=001 imp:n=1
00153   0                  -51    47   -48    18   -50    68 u=001 imp:n=1
00154   0                  -46    71   -48    18   -50    68 u=001 imp:n=1
00155   0                  -63    73   -48    18   -67    68 u=001 imp:n=1
00156   0                  -29    66   -48    18   -67    68 u=001 imp:n=1
00157   0                  -19    73   -48    18   -70    67 u=001 imp:n=1
00158   0                  -51    71   -48    18   -70    50 u=001 imp:n=1
00159   0                  -29    17   -48    18   -70    67 u=001 imp:n=1
00160   0                  -19    75   -48    18   -79    70 u=001 imp:n=1
00161   0                  -80    78   -48    18   -79    77 u=001 imp:n=1
00162   0                  -19    17   -14    48   -79    37 u=001 imp:n=1
00163   0                  -19    17   -14    18   -16    79 u=001 imp:n=1
00164   0                  -19    74   -48    18   -67    24 u=001 imp:n=1
00165   0                  -19    60   -21    48   -37    24 u=001 imp:n=1
00166   0                  -71    43   -26    18   -36    22 u=001 imp:n=1
00167   0                  -73    60   -26    18   -36    22 u=001 imp:n=1
00168   0                  -59    52   -21    18   -36    24 u=001 imp:n=1
00169   0                  -42    30   -21    18   -37    24 u=001 imp:n=1
00170   0                  -20    66   -48    18   -68    24 u=001 imp:n=1
00171   0                  -29    17   -21    48   -37    24 u=001 imp:n=1
00172   0                  -63    60   -21    25   -24    22 u=001 imp:n=1
00173   0                  -59    56   -21    25   -24    22 u=001 imp:n=1
00174   0                  -55    52   -21    25   -24    22 u=001 imp:n=1
00175   0                  -51    43   -21    25   -36    22 u=001 imp:n=1
00176   0                  -42    39   -21    25   -24    22 u=001 imp:n=1
00177   0                  -38    30   -21    25   -24    22 u=001 imp:n=1
00178   0                  -29    20   -21    25   -24    22 u=001 imp:n=1
00179   0                  -19    17   -14    21   -37    15 u=001 imp:n=1
00180   3  0.8540120E-01    -2     1    -4     3   -81    11 u=001  imp:n=1
00181   3  0.8540120E-01    -2     1    -8     7   -81    11 u=001  imp:n=1
00182   3  0.8540120E-01    -9     1    -7     4   -81    11 u=001  imp:n=1
00183   3  0.8540120E-01    -2    10    -7     4   -81    11 u=001  imp:n=1
00184  34  0.1035093E+00   -82     9   -83     4   -85    84 u=001  imp:n=1
00185   0                  -10     9    -7     4   -84    11 u=001 imp:n=1
00186   0                  -10     9    -7     4   -81    85 u=001 imp:n=1
00187   0                  -10     9    -7    83   -85    84 u=001 imp:n=1
00188   0                  -10    82   -83     4   -85    84 u=001 imp:n=1
00189   1  0.3030146E-01    -2     1    -4     3    -6     5 u=002  imp:n=1
00190   1  0.3030146E-01    -2     1    -8     7    -6     5 u=002  imp:n=1
00191   2  0.7570860E-01    -9     1    -7     4    -6     5 u=002  imp:n=1
00192   2  0.7570860E-01    -2    10    -7     4    -6     5 u=002  imp:n=1
00193   3  0.8540120E-01    -2     1    -4     3   -11     6 u=002  imp:n=1
00194   3  0.8540120E-01    -2     1    -8     7   -11     6 u=002  imp:n=1
00195   3  0.8540120E-01    -9     1    -7     4   -11     6 u=002  imp:n=1
00196   3  0.8540120E-01    -2    10    -7     4   -11     6 u=002  imp:n=1
00197   4  0.7332760E-01   -13    12   -14     4   -15     5 u=002  imp:n=1
00198   5  0.3966184E-01   -13    12   -14     4   -11    16 u=002  imp:n=1
00199   6  0.3747366E-01   -17    12   -14    18   -16    15 u=002  imp:n=1
00200   6  0.3747366E-01   -13    19   -14    18   -16    15 u=002  imp:n=1
00201   6  0.3747366E-01   -13    12   -18     4   -16    15 u=002  imp:n=1
00202  11  0.7961518E-01   -87    86   -21    18   -22    15 u=002  imp:n=1
00203  11  0.7961518E-01   -87    86   -21    18   -32    31 u=002  imp:n=1
00204  12  0.7714468E-01   -87    86   -21    25   -31    22 u=002  imp:n=1
00205  12  0.7714468E-01   -87    86   -26    18   -31    22 u=002  imp:n=1
00206  13  0.6712964E-01   -88    86   -25    26   -31    22 u=002  imp:n=1
00207  13  0.6712964E-01   -87    89   -25    26   -31    22 u=002  imp:n=1
00208  14  0.4579853E-01   -89    88   -25    26   -31    22 u=002  imp:n=1
00209  11  0.7961518E-01   -87    86   -21    18   -35    32 u=002  imp:n=1
00210  11  0.7961518E-01   -87    86   -21    18   -37    36 u=002  imp:n=1
```

```
00211  12  0.7714468E-01   -87    86   -21    25   -36    35 u=002  imp:n=1
00212  12  0.7714468E-01   -87    86   -26    18   -36    35 u=002  imp:n=1
00213  13  0.6712964E-01   -88    86   -25    26   -36    35 u=002  imp:n=1
00214  13  0.6712964E-01   -87    89   -25    26   -36    35 u=002  imp:n=1
00215  14  0.4579853E-01   -89    88   -25    26   -36    35 u=002  imp:n=1
00216  15  0.8003452E-01   -91    90   -21    18   -22    15 u=002  imp:n=1
00217  15  0.8003452E-01   -91    90   -21    18   -24    23 u=002  imp:n=1
00218  16  0.7744373E-01   -91    90   -21    25   -23    22 u=002  imp:n=1
00219  16  0.7744373E-01   -91    90   -26    18   -23    22 u=002  imp:n=1
00220  17  0.6733980E-01   -92    90   -25    26   -23    22 u=002  imp:n=1
00221  17  0.6733980E-01   -91    93   -25    26   -23    22 u=002  imp:n=1
00222  18  0.4487970E-01   -93    92   -25    26   -23    22 u=002  imp:n=1
00223  15  0.8003452E-01   -95    94   -21    18   -22    15 u=002  imp:n=1
00224  15  0.8003452E-01   -95    94   -21    18   -24    23 u=002  imp:n=1
00225  16  0.7744373E-01   -95    94   -21    25   -23    22 u=002  imp:n=1
00226  16  0.7744373E-01   -95    94   -26    18   -23    22 u=002  imp:n=1
00227  17  0.6733980E-01   -96    94   -25    26   -23    22 u=002  imp:n=1
00228  17  0.6733980E-01   -95    97   -25    26   -23    22 u=002  imp:n=1
00229  18  0.4487970E-01   -97    96   -25    26   -23    22 u=002  imp:n=1
00230  15  0.8003452E-01   -99    98   -21    18   -22    15 u=002  imp:n=1
00231  15  0.8003452E-01   -99    98   -21    18   -24    23 u=002  imp:n=1
00232  16  0.7744373E-01   -99    98   -21    25   -23    22 u=002  imp:n=1
00233  16  0.7744373E-01   -99    98   -26    18   -23    22 u=002  imp:n=1
00234  17  0.6733980E-01  -100    98   -25    26   -23    22 u=002  imp:n=1
00235  17  0.6733980E-01   -99   101   -25    26   -23    22 u=002  imp:n=1
00236  18  0.4487970E-01  -101   100   -25    26   -23    22 u=002  imp:n=1
00237  15  0.8003452E-01  -103   102   -21    18   -22    15 u=002  imp:n=1
00238  15  0.8003452E-01  -103   102   -21    18   -24    23 u=002  imp:n=1
00239  16  0.7744373E-01  -103   102   -21    25   -23    22 u=002  imp:n=1
00240  16  0.7744373E-01  -103   102   -26    18   -23    22 u=002  imp:n=1
00241  17  0.6733980E-01  -104   102   -25    26   -23    22 u=002  imp:n=1
00242  17  0.6733980E-01  -103   105   -25    26   -23    22 u=002  imp:n=1
00243  18  0.4487970E-01  -105   104   -25    26   -23    22 u=002  imp:n=1
00244  15  0.8003452E-01  -107   106   -21    18   -22    15 u=002  imp:n=1
00245  15  0.8003452E-01  -107   106   -21    18   -24    23 u=002  imp:n=1
00246  16  0.7744373E-01  -107   106   -21    25   -23    22 u=002  imp:n=1
00247  16  0.7744373E-01  -107   106   -26    18   -23    22 u=002  imp:n=1
00248  17  0.6733980E-01  -108   106   -25    26   -23    22 u=002  imp:n=1
00249  17  0.6733980E-01  -107   109   -25    26   -23    22 u=002  imp:n=1
00250  18  0.4487970E-01  -109   108   -25    26   -23    22 u=002  imp:n=1
00251  11  0.7961518E-01  -111   110   -21    18   -22    15 u=002  imp:n=1
00252  11  0.7961518E-01  -111   110   -21    18   -32    31 u=002  imp:n=1
00253  12  0.7714468E-01  -111   110   -21    25   -31    22 u=002  imp:n=1
00254  12  0.7714468E-01  -111   110   -26    18   -31    22 u=002  imp:n=1
00255  13  0.6712964E-01  -112   110   -25    26   -31    22 u=002  imp:n=1
00256  13  0.6712964E-01  -111   113   -25    26   -31    22 u=002  imp:n=1
00257  14  0.4579853E-01  -113   112   -25    26   -31    22 u=002  imp:n=1
00258  11  0.7961518E-01  -111   110   -21    18   -35    32 u=002  imp:n=1
00259  11  0.7961518E-01  -111   110   -21    18   -37    36 u=002  imp:n=1
00260  12  0.7714468E-01  -111   110   -21    25   -36    35 u=002  imp:n=1
00261  12  0.7714468E-01  -111   110   -26    18   -36    35 u=002  imp:n=1
00262  13  0.6712964E-01  -112   110   -25    26   -36    35 u=002  imp:n=1
00263  13  0.6712964E-01  -111   113   -25    26   -36    35 u=002  imp:n=1
00264  14  0.4579853E-01  -113   112   -25    26   -36    35 u=002  imp:n=1
00265  29  0.1183522E+00  -114    86   -48    18   -70    37 u=002  imp:n=1
00266  30  0.5464445E-01   -90    87   -48    18   -49    15 u=002  imp:n=1
00267  26  0.7164290E-01  -115   114   -48    18   -68    15 u=002  imp:n=1
00268  23  0.1232400E+00  -116   115   -48    18   -49    15 u=002  imp:n=1
00269  24  0.1232187E+00  -116   115   -48    18   -50    49 u=002  imp:n=1
00270  26  0.7164290E-01   -94   116   -48    18   -68    15 u=002  imp:n=1
00271  29  0.1183522E+00  -117    94   -48    18   -67    24 u=002  imp:n=1
00272  30  0.5464445E-01   -98    95   -48    18   -49    15 u=002  imp:n=1
00273  29  0.1183522E+00  -118   117   -48    18   -67    24 u=002  imp:n=1
00274  30  0.5464445E-01  -102    99   -48    18   -49    15 u=002  imp:n=1
00275  26  0.7164290E-01  -119   118   -48    18   -68    15 u=002  imp:n=1
00276  23  0.1232400E+00  -120   119   -48    18   -49    15 u=002  imp:n=1
00277  24  0.1232187E+00  -120   119   -48    18   -50    49 u=002  imp:n=1
00278  26  0.7164290E-01  -106   120   -48    18   -68    15 u=002  imp:n=1
00279  29  0.1183522E+00  -121   106   -48    18   -70    37 u=002  imp:n=1
00280  30  0.5464445E-01  -110   107   -48    18   -49    15 u=002  imp:n=1
00281  31  0.2714513E-01   -75    17   -48    18   -76    70 u=002  imp:n=1
00282  32  0.8823003E-01   -75    17   -48    18   -77    76 u=002  imp:n=1
00283  33  0.8829426E-01   -78    17   -48    18   -79    77 u=002  imp:n=1
00284  33  0.8829426E-01   -75    80   -48    18   -79    77 u=002  imp:n=1
00285   0                  -12     9   -14     4   -11     6 u=002 imp:n=1
00286   0                  -10    13   -14     4   -11     6 u=002 imp:n=1
```

```
00287   0                  -10     9    -7    14   -11     5 u=002 imp:n=1
00288   0                  -86    17   -21    18   -35     6 u=002 imp:n=1
00289   0                  -90    87   -21    48   -31     6 u=002 imp:n=1
00290   0                  -94    91   -21    48   -31     6 u=002 imp:n=1
00291   0                 -114    91   -48    18   -31     6 u=002 imp:n=1
00292   0                  -98    95   -21    48   -31     6 u=002 imp:n=1
00293   0                 -102    99   -21    48   -31     6 u=002 imp:n=1
00294   0                 -106   103   -21    48   -31     6 u=002 imp:n=1
00295   0                 -118   103   -48    18   -31     6 u=002 imp:n=1
00296   0                 -110   107   -21    48   -31     6 u=002 imp:n=1
00297   0                  -19   111   -21    18   -31     6 u=002 imp:n=1
00298   0                  -19   111   -21    18    -6    15 u=002 imp:n=1
00299   0                 -110   107   -21    48    -6    15 u=002 imp:n=1
00300   0                 -118   103   -48    18    -6    15 u=002 imp:n=1
00301   0                 -106   103   -21    48    -6    15 u=002 imp:n=1
00302   0                  -19    17   -14    21   -37    15 u=002 imp:n=1
00303   0                 -102    99   -21    48    -6    15 u=002 imp:n=1
00304   0                  -98    95   -21    48    -6    15 u=002 imp:n=1
00305   0                 -114    91   -48    18    -6    15 u=002 imp:n=1
00306   0                  -94    91   -21    48    -6    15 u=002 imp:n=1
00307   0                  -90    87   -21    48    -6    15 u=002 imp:n=1
00308   0                  -86    17   -21    18    -6    15 u=002 imp:n=1
00309   0                  -10    13   -14     4    -6     5 u=002 imp:n=1
00310   0                  -12     9   -14     4    -6     5 u=002 imp:n=1
00311   0                  -86    17   -21    18   -37    35 u=002 imp:n=1
00312   0                  -90    87   -25    26   -24    49 u=002 imp:n=1
00313   0                  -90    87   -25    48   -49    31 u=002 imp:n=1
00314   0                  -94    91   -25    48   -24    31 u=002 imp:n=1
00315   0                 -114    91   -48    26   -24    31 u=002 imp:n=1
00316   0                  -98    95   -25    26   -24    49 u=002 imp:n=1
00317   0                  -98    95   -25    48   -49    31 u=002 imp:n=1
00318   0                 -102    99   -25    26   -24    49 u=002 imp:n=1
00319   0                 -102    99   -25    48   -49    31 u=002 imp:n=1
00320   0                 -106   103   -25    48   -24    31 u=002 imp:n=1
00321   0                 -118   103   -48    26   -24    31 u=002 imp:n=1
00322   0                 -110   107   -25    26   -24    49 u=002 imp:n=1
00323   0                 -110   107   -25    48   -49    31 u=002 imp:n=1
00324   0                  -19   111   -25    26   -36    31 u=002 imp:n=1
00325   0                 -110    87   -21    48   -37    24 u=002 imp:n=1
00326   0                 -114    87   -48    18   -37    24 u=002 imp:n=1
00327   0                 -110   106   -48    18   -37    24 u=002 imp:n=1
00328   0                  -19   111   -21    18   -37    36 u=002 imp:n=1
00329   0                 -106   120   -48    18   -50    68 u=002 imp:n=1
00330   0                 -119   118   -48    18   -50    68 u=002 imp:n=1
00331   0                  -94   116   -48    18   -50    68 u=002 imp:n=1
00332   0                 -115   114   -48    18   -50    68 u=002 imp:n=1
00333   0                 -106   118   -48    18   -67    50 u=002 imp:n=1
00334   0                  -94   114   -48    18   -67    50 u=002 imp:n=1
00335   0                  -19   121   -48    18   -70    37 u=002 imp:n=1
00336   0                 -106   114   -48    18   -70    67 u=002 imp:n=1
00337   0                  -86    17   -48    18   -70    37 u=002 imp:n=1
00338   0                  -90    87   -26    18   -24    49 u=002 imp:n=1
00339   0                 -114    91   -26    18   -24    31 u=002 imp:n=1
00340   0                  -98    95   -26    18   -24    49 u=002 imp:n=1
00341   0                 -102    99   -26    18   -24    49 u=002 imp:n=1
00342   0                 -118   103   -26    18   -24    31 u=002 imp:n=1
00343   0                 -110   107   -26    18   -24    49 u=002 imp:n=1
00344   0                  -19   111   -26    18   -36    31 u=002 imp:n=1
00345   0                  -19    75   -48    18   -79    70 u=002 imp:n=1
00346   0                  -80    78   -48    18   -79    77 u=002 imp:n=1
00347   0                  -19    17   -14    48   -79    37 u=002 imp:n=1
00348   0                  -19    17   -14    18   -16    79 u=002 imp:n=1
00349   0                  -19   111   -21    25   -36    31 u=002 imp:n=1
00350   0                 -110   107   -21    25   -24    31 u=002 imp:n=1
00351   0                 -106   103   -21    25   -24    31 u=002 imp:n=1
00352   0                 -102    99   -21    25   -24    31 u=002 imp:n=1
00353   0                  -98    95   -21    25   -24    31 u=002 imp:n=1
00354   0                  -94    91   -21    25   -24    31 u=002 imp:n=1
00355   0                  -90    87   -21    25   -24    31 u=002 imp:n=1
00356   3  0.8540120E-01    -2     1    -4     3   -81    11 u=002  imp:n=1
00357   3  0.8540120E-01    -2     1    -8     7   -81    11 u=002  imp:n=1
00358   3  0.8540120E-01    -9     1    -7     4   -81    11 u=002  imp:n=1
00359   3  0.8540120E-01    -2    10    -7     4   -81    11 u=002  imp:n=1
00360  34  0.1035093E+00   -82     9   -83     4   -85    84 u=002  imp:n=1
00361   0                  -10     9    -7     4   -84    11 u=002 imp:n=1
00362   0                  -10     9    -7     4   -81    85 u=002 imp:n=1
```

```
00363   0                  -10     9    -7    83   -85    84 u=002 imp:n=1
00364   0                  -10    82   -83     4   -85    84 u=002 imp:n=1
00365   1  0.3030146E-01    -2     1    -4     3    -6     5 u=003  imp:n=1
00366   1  0.3030146E-01    -2     1    -8     7    -6     5 u=003  imp:n=1
00367   2  0.7570860E-01    -9     1    -7     4    -6     5 u=003  imp:n=1
00368   2  0.7570860E-01    -2    10    -7     4    -6     5 u=003  imp:n=1
00369   3  0.8540120E-01    -2     1    -4     3   -11     6 u=003  imp:n=1
00370   3  0.8540120E-01    -2     1    -8     7   -11     6 u=003  imp:n=1
00371   3  0.8540120E-01    -9     1    -7     4   -11     6 u=003  imp:n=1
00372   3  0.8540120E-01    -2    10    -7     4   -11     6 u=003  imp:n=1
00373   4  0.7332760E-01   -13    12   -14     4   -15     5 u=003  imp:n=1
00374   5  0.3966184E-01   -13    12   -14     4   -11    16 u=003  imp:n=1
00375   6  0.3747366E-01   -17    12   -14    18   -16    15 u=003  imp:n=1
00376   6  0.3747366E-01   -13    19   -14    18   -16    15 u=003  imp:n=1
00377   6  0.3747366E-01   -13    12   -18     4   -16    15 u=003  imp:n=1
00378   7  0.8235419E-01   -20    17   -21    18   -22    15 u=003  imp:n=1
00379   7  0.8235419E-01   -20    17   -21    18   -24    23 u=003  imp:n=1
00380   8  0.7986135E-01   -20    17   -21    25   -23    22 u=003  imp:n=1
00381   8  0.7986135E-01   -20    17   -26    18   -23    22 u=003  imp:n=1
00382   9  0.6943934E-01   -27    17   -25    26   -23    22 u=003  imp:n=1
00383   9  0.6943934E-01   -20    28   -25    26   -23    22 u=003  imp:n=1
00384  10  0.4603587E-01   -28    27   -25    26   -23    22 u=003  imp:n=1
00385  11  0.7961518E-01   -30    29   -21    18   -22    15 u=003  imp:n=1
00386  11  0.7961518E-01   -30    29   -21    18   -32    31 u=003  imp:n=1
00387  12  0.7714468E-01   -30    29   -21    25   -31    22 u=003  imp:n=1
00388  12  0.7714468E-01   -30    29   -26    18   -31    22 u=003  imp:n=1
00389  13  0.6712964E-01   -33    29   -25    26   -31    22 u=003  imp:n=1
00390  13  0.6712964E-01   -30    34   -25    26   -31    22 u=003  imp:n=1
00391  14  0.4579853E-01   -34    33   -25    26   -31    22 u=003  imp:n=1
00392  11  0.7961518E-01   -30    29   -21    18   -35    32 u=003  imp:n=1
00393  11  0.7961518E-01   -30    29   -21    18   -37    36 u=003  imp:n=1
00394  12  0.7714468E-01   -30    29   -21    25   -36    35 u=003  imp:n=1
00395  12  0.7714468E-01   -30    29   -26    18   -36    35 u=003  imp:n=1
00396  13  0.6712964E-01   -33    29   -25    26   -36    35 u=003  imp:n=1
00397  13  0.6712964E-01   -30    34   -25    26   -36    35 u=003  imp:n=1
00398  14  0.4579853E-01   -34    33   -25    26   -36    35 u=003  imp:n=1
00399  15  0.8003452E-01   -39    38   -21    18   -22    15 u=003  imp:n=1
00400  15  0.8003452E-01   -39    38   -21    18   -24    23 u=003  imp:n=1
00401  16  0.7744373E-01   -39    38   -21    25   -23    22 u=003  imp:n=1
00402  16  0.7744373E-01   -39    38   -26    18   -23    22 u=003  imp:n=1
00403  17  0.6733980E-01   -40    38   -25    26   -23    22 u=003  imp:n=1
00404  17  0.6733980E-01   -39    41   -25    26   -23    22 u=003  imp:n=1
00405  18  0.4487970E-01   -41    40   -25    26   -23    22 u=003  imp:n=1
00406  15  0.8003452E-01  -122    39   -21    18   -22    15 u=003  imp:n=1
00407  15  0.8003452E-01  -122    39   -21    18   -24    23 u=003  imp:n=1
00408  16  0.7744373E-01  -122    39   -21    25   -23    22 u=003  imp:n=1
00409  16  0.7744373E-01  -122    39   -26    18   -23    22 u=003  imp:n=1
00410  17  0.6733980E-01  -123    39   -25    26   -23    22 u=003  imp:n=1
00411  17  0.6733980E-01  -122    44   -25    26   -23    22 u=003  imp:n=1
00412  18  0.4487970E-01   -44   123   -25    26   -23    22 u=003  imp:n=1
00413  19  0.7776510E-01  -124   122   -21    18   -22    15 u=003  imp:n=1
00414  19  0.7776510E-01  -124   122   -21    18   -32    31 u=003  imp:n=1
00415  20  0.7523151E-01  -124   122   -21    25   -31    22 u=003  imp:n=1
00416  20  0.7523151E-01  -124   122   -26    18   -31    22 u=003  imp:n=1
00417  21  0.6542969E-01  -125   122   -25    26   -31    22 u=003  imp:n=1
00418  21  0.6542969E-01  -124   126   -25    26   -31    22 u=003  imp:n=1
00419  22  0.4487471E-01  -126   125   -25    26   -31    22 u=003  imp:n=1
00420  19  0.7776510E-01  -124   122   -21    18   -35    32 u=003  imp:n=1
00421  19  0.7776510E-01  -124   122   -21    18   -37    36 u=003  imp:n=1
00422  20  0.7523151E-01  -124   122   -21    25   -36    35 u=003  imp:n=1
00423  20  0.7523151E-01  -124   122   -26    18   -36    35 u=003  imp:n=1
00424  21  0.6542969E-01  -125   122   -25    26   -36    35 u=003  imp:n=1
00425  21  0.6542969E-01  -124   126   -25    26   -36    35 u=003  imp:n=1
00426  22  0.4487471E-01  -126   125   -25    26   -36    35 u=003  imp:n=1
00427  23  0.1232400E+00   -47    46   -48    18   -49    15 u=003  imp:n=1
00428  24  0.1232187E+00   -47    46   -48    18   -50    49 u=003  imp:n=1
00429  19  0.7776510E-01   -52    51   -21    18   -22    15 u=003  imp:n=1
00430  19  0.7776510E-01   -52    51   -21    18   -32    31 u=003  imp:n=1
00431  20  0.7523151E-01   -52    51   -21    25   -31    22 u=003  imp:n=1
00432  20  0.7523151E-01   -52    51   -26    18   -31    22 u=003  imp:n=1
00433  21  0.6542969E-01   -53    51   -25    26   -31    22 u=003  imp:n=1
00434  21  0.6542969E-01   -52    54   -25    26   -31    22 u=003  imp:n=1
00435  22  0.4487471E-01   -54    53   -25    26   -31    22 u=003  imp:n=1
00436  19  0.7776510E-01   -52    51   -21    18   -35    32 u=003  imp:n=1
00437  19  0.7776510E-01   -52    51   -21    18   -37    36 u=003  imp:n=1
00438  20  0.7523151E-01   -52    51   -21    25   -36    35 u=003  imp:n=1
```

```
00439  20  0.7523151E-01   -52    51   -26    18   -36    35 u=003  imp:n=1
00440  21  0.6542969E-01   -53    51   -25    26   -36    35 u=003  imp:n=1
00441  21  0.6542969E-01   -52    54   -25    26   -36    35 u=003  imp:n=1
00442  22  0.4487471E-01   -54    53   -25    26   -36    35 u=003  imp:n=1
00443   7  0.8235419E-01  -127    52   -21    18   -22    15 u=003  imp:n=1
00444   7  0.8235419E-01  -127    52   -21    18   -24    23 u=003  imp:n=1
00445   8  0.7986135E-01  -127    52   -21    25   -23    22 u=003  imp:n=1
00446   8  0.7986135E-01  -127    52   -26    18   -23    22 u=003  imp:n=1
00447   9  0.6943934E-01  -128    52   -25    26   -23    22 u=003  imp:n=1
00448   9  0.6943934E-01  -127   129   -25    26   -23    22 u=003  imp:n=1
00449  10  0.4603587E-01  -129   128   -25    26   -23    22 u=003  imp:n=1
00450  35  0.8186756E-01  -130   127   -48    18   -49    15 u=003  imp:n=1
00451  15  0.8003452E-01  -131   130   -21    18   -22    15 u=003  imp:n=1
00452  15  0.8003452E-01  -131   130   -21    18   -24    23 u=003  imp:n=1
00453  16  0.7744373E-01  -131   130   -21    25   -23    22 u=003  imp:n=1
00454  16  0.7744373E-01  -131   130   -26    18   -23    22 u=003  imp:n=1
00455  17  0.6733980E-01  -132   130   -25    26   -23    22 u=003  imp:n=1
00456  17  0.6733980E-01  -131   133   -25    26   -23    22 u=003  imp:n=1
00457  18  0.4487970E-01  -133   132   -25    26   -23    22 u=003  imp:n=1
00458  11  0.7961518E-01  -135   134   -21    18   -22    15 u=003  imp:n=1
00459  11  0.7961518E-01  -135   134   -21    18   -32    31 u=003  imp:n=1
00460  12  0.7714468E-01  -135   134   -21    25   -31    22 u=003  imp:n=1
00461  12  0.7714468E-01  -135   134   -26    18   -31    22 u=003  imp:n=1
00462  13  0.6712964E-01  -136   134   -25    26   -31    22 u=003  imp:n=1
00463  13  0.6712964E-01  -135   137   -25    26   -31    22 u=003  imp:n=1
00464  14  0.4579853E-01  -137   136   -25    26   -31    22 u=003  imp:n=1
00465  11  0.7961518E-01  -135   134   -21    18   -35    32 u=003  imp:n=1
00466  11  0.7961518E-01  -135   134   -21    18   -37    36 u=003  imp:n=1
00467  12  0.7714468E-01  -135   134   -21    25   -36    35 u=003  imp:n=1
00468  12  0.7714468E-01  -135   134   -26    18   -36    35 u=003  imp:n=1
00469  13  0.6712964E-01  -136   134   -25    26   -36    35 u=003  imp:n=1
00470  13  0.6712964E-01  -135   137   -25    26   -36    35 u=003  imp:n=1
00471  14  0.4579853E-01  -137   136   -25    26   -36    35 u=003  imp:n=1
00472   7  0.8235419E-01   -19    63   -21    18   -22    15 u=003  imp:n=1
00473   7  0.8235419E-01   -19    63   -21    18   -24    23 u=003  imp:n=1
00474   8  0.7986135E-01   -19    63   -21    25   -23    22 u=003  imp:n=1
00475   8  0.7986135E-01   -19    63   -26    18   -23    22 u=003  imp:n=1
00476   9  0.6943934E-01   -64    63   -25    26   -23    22 u=003  imp:n=1
00477   9  0.6943934E-01   -19    65   -25    26   -23    22 u=003  imp:n=1
00478  10  0.4603587E-01   -65    64   -25    26   -23    22 u=003  imp:n=1
00479  25  0.1201037E+00   -66    17   -48    18   -67    24 u=003  imp:n=1
00480  26  0.7164290E-01   -29    20   -48    18   -68    15 u=003  imp:n=1
00481  27  0.1212447E+00   -69    29   -48    18   -70    37 u=003  imp:n=1
00482  28  0.1187656E+00   -38    30   -48    18   -49    15 u=003  imp:n=1
00483  29  0.1183522E+00   -71    69   -48    18   -70    37 u=003  imp:n=1
00484  26  0.7164290E-01   -46    71   -48    18   -68    15 u=003  imp:n=1
00485  26  0.7164290E-01   -51    47   -48    18   -68    15 u=003  imp:n=1
00486  29  0.1183522E+00   -72    51   -48    18   -70    37 u=003  imp:n=1
00487  27  0.1212447E+00   -73    72   -48    18   -70    37 u=003  imp:n=1
00488  28  0.1187656E+00  -134   131   -48    18   -49    15 u=003  imp:n=1
00489  26  0.7164290E-01   -63    73   -48    18   -68    15 u=003  imp:n=1
00490  25  0.1201037E+00   -74    63   -48    18   -67    24 u=003  imp:n=1
00491  31  0.2714513E-01   -75    17   -48    18   -76    70 u=003  imp:n=1
00492  32  0.8823003E-01   -75    17   -48    18   -77    76 u=003  imp:n=1
00493  33  0.8829426E-01   -78    17   -48    18   -79    77 u=003  imp:n=1
00494  33  0.8829426E-01   -75    80   -48    18   -79    77 u=003  imp:n=1
00495   0                  -12     9   -14     4   -11     6 u=003 imp:n=1
00496   0                  -10    13   -14     4   -11     6 u=003 imp:n=1
00497   0                  -10     9    -7    14   -11     5 u=003 imp:n=1
00498   0                  -29    20   -25    48   -24    22 u=003 imp:n=1
00499   0                  -38    30   -25    48   -49    22 u=003 imp:n=1
00500   0                  -51   124   -25    48   -36    22 u=003 imp:n=1
00501   0                 -130   127   -25    48   -24    22 u=003 imp:n=1
00502   0                 -134   131   -25    48   -24    22 u=003 imp:n=1
00503   0                  -63   135   -25    48   -24    22 u=003 imp:n=1
00504   0                  -71   124   -48    26   -36    22 u=003 imp:n=1
00505   0                  -73   135   -48    26   -36    22 u=003 imp:n=1
00506   0                  -73   135   -48    18   -22    15 u=003 imp:n=1
00507   0                  -38    30   -25    18   -23    49 u=003 imp:n=1
00508   0                  -71   124   -48    18   -22    15 u=003 imp:n=1
00509   0                  -63   135   -21    48   -22    15 u=003 imp:n=1
00510   0                 -134   131   -21    48   -22    15 u=003 imp:n=1
00511   0                 -130   127   -21    48   -22    15 u=003 imp:n=1
00512   0                  -51   124   -21    48   -22    15 u=003 imp:n=1
00513   0                  -38    30   -21    48   -22    15 u=003 imp:n=1
00514   0                 -130   127   -48    18   -23    49 u=003 imp:n=1
```

```
00515   0                -134   131   -48    18   -23    49 u=003 imp:n=1
00516   0                 -29    20   -21    48   -22    15 u=003 imp:n=1
00517   0                 -10    13   -14     4    -6     5 u=003 imp:n=1
00518   0                 -12     9   -14     4    -6     5 u=003 imp:n=1
00519   0                -134   131   -48    18   -24    23 u=003 imp:n=1
00520   0                -130   127   -48    18   -24    23 u=003 imp:n=1
00521   0                 -38    30   -25    18   -24    23 u=003 imp:n=1
00522   0                 -73   135   -48    18   -37    36 u=003 imp:n=1
00523   0                 -71   124   -48    18   -37    36 u=003 imp:n=1
00524   0                -134    52   -21    18   -37    36 u=003 imp:n=1
00525   0                 -51   124   -21    48   -37    36 u=003 imp:n=1
00526   0                 -51    47   -48    18   -50    68 u=003 imp:n=1
00527   0                 -46    71   -48    18   -50    68 u=003 imp:n=1
00528   0                 -63    73   -48    18   -67    68 u=003 imp:n=1
00529   0                 -29    66   -48    18   -67    68 u=003 imp:n=1
00530   0                 -19    73   -48    18   -70    67 u=003 imp:n=1
00531   0                 -51    71   -48    18   -70    50 u=003 imp:n=1
00532   0                 -29    17   -48    18   -70    67 u=003 imp:n=1
00533   0                 -19    75   -48    18   -79    70 u=003 imp:n=1
00534   0                 -80    78   -48    18   -79    77 u=003 imp:n=1
00535   0                 -19    17   -14    48   -79    37 u=003 imp:n=1
00536   0                 -19    17   -14    18   -16    79 u=003 imp:n=1
00537   0                 -19    74   -48    18   -67    24 u=003 imp:n=1
00538   0                 -71   124   -26    18   -36    22 u=003 imp:n=1
00539   0                 -73   135   -26    18   -36    22 u=003 imp:n=1
00540   0                 -19   135   -21    48   -37    24 u=003 imp:n=1
00541   0                -134    52   -21    18   -36    24 u=003 imp:n=1
00542   0                -122    30   -21    18   -37    24 u=003 imp:n=1
00543   0                 -20    66   -48    18   -68    24 u=003 imp:n=1
00544   0                 -29    17   -21    48   -37    24 u=003 imp:n=1
00545   0                 -63   135   -21    25   -24    22 u=003 imp:n=1
00546   0                -134   131   -21    25   -24    22 u=003 imp:n=1
00547   0                -130   127   -21    25   -24    22 u=003 imp:n=1
00548   0                 -51   124   -21    25   -36    22 u=003 imp:n=1
00549   0                 -38    30   -21    25   -24    22 u=003 imp:n=1
00550   0                 -29    20   -21    25   -24    22 u=003 imp:n=1
00551   0                 -19    17   -14    21   -37    15 u=003 imp:n=1
00552   3  0.8540120E-01    -2     1    -4     3   -81    11 u=003  imp:n=1
00553   3  0.8540120E-01    -2     1    -8     7   -81    11 u=003  imp:n=1
00554   3  0.8540120E-01    -9     1    -7     4   -81    11 u=003  imp:n=1
00555   3  0.8540120E-01    -2    10    -7     4   -81    11 u=003  imp:n=1
00556  34  0.1035093E+00   -82     9   -83     4   -85    84 u=003  imp:n=1
00557   0                  -10     9    -7     4   -84    11 u=003 imp:n=1
00558   0                  -10     9    -7     4   -81    85 u=003 imp:n=1
00559   0                  -10     9    -7    83   -85    84 u=003 imp:n=1
00560   0                  -10    82   -83     4   -85    84 u=003 imp:n=1
00561   1  0.3030146E-01    -2     1    -4     3    -6     5 u=004  imp:n=1
00562   1  0.3030146E-01    -2     1    -8     7    -6     5 u=004  imp:n=1
00563   2  0.7570860E-01    -9     1    -7     4    -6     5 u=004  imp:n=1
00564   2  0.7570860E-01    -2    10    -7     4    -6     5 u=004  imp:n=1
00565   3  0.8540120E-01    -2     1    -4     3   -11     6 u=004  imp:n=1
00566   3  0.8540120E-01    -2     1    -8     7   -11     6 u=004  imp:n=1
00567   3  0.8540120E-01    -9     1    -7     4   -11     6 u=004  imp:n=1
00568   3  0.8540120E-01    -2    10    -7     4   -11     6 u=004  imp:n=1
00569   4  0.7332760E-01   -13    12   -14     4   -15     5 u=004  imp:n=1
00570   5  0.3966184E-01   -13    12   -14     4   -11    16 u=004  imp:n=1
00571   6  0.3747366E-01   -17    12   -14    18   -16    15 u=004  imp:n=1
00572   6  0.3747366E-01   -13    19   -14    18   -16    15 u=004  imp:n=1
00573   6  0.3747366E-01   -13    12   -18     4   -16    15 u=004  imp:n=1
00574   7  0.8235419E-01  -139   138   -21    18   -22    15 u=004  imp:n=1
00575   7  0.8235419E-01  -139   138   -21    18   -24    23 u=004  imp:n=1
00576   8  0.7986135E-01  -139   138   -21    25   -23    22 u=004  imp:n=1
00577   8  0.7986135E-01  -139   138   -26    18   -23    22 u=004  imp:n=1
00578   9  0.6943934E-01  -140   138   -25    26   -23    22 u=004  imp:n=1
00579   9  0.6943934E-01  -139   141   -25    26   -23    22 u=004  imp:n=1
00580  10  0.4603587E-01  -141   140   -25    26   -23    22 u=004  imp:n=1
00581  15  0.8003452E-01  -143   142   -21    18   -22    15 u=004  imp:n=1
00582  15  0.8003452E-01  -143   142   -21    18   -24    23 u=004  imp:n=1
00583  16  0.7744373E-01  -143   142   -21    25   -23    22 u=004  imp:n=1
00584  16  0.7744373E-01  -143   142   -26    18   -23    22 u=004  imp:n=1
00585  17  0.6733980E-01  -144   142   -25    26   -23    22 u=004  imp:n=1
00586  17  0.6733980E-01  -143   145   -25    26   -23    22 u=004  imp:n=1
00587  18  0.4487970E-01  -145   144   -25    26   -23    22 u=004  imp:n=1
00588  23  0.1232400E+00  -147   146   -48    18   -49    15 u=004  imp:n=1
00589  24  0.1232187E+00  -147   146   -48    18   -50    49 u=004  imp:n=1
00590  15  0.8003452E-01  -149   148   -21    18   -22    15 u=004  imp:n=1
```

```
00591  15  0.8003452E-01  -149   148   -21    18   -24    23 u=004  imp:n=1
00592  16  0.7744373E-01  -149   148   -21    25   -23    22 u=004  imp:n=1
00593  16  0.7744373E-01  -149   148   -26    18   -23    22 u=004  imp:n=1
00594  17  0.6733980E-01  -150   148   -25    26   -23    22 u=004  imp:n=1
00595  17  0.6733980E-01  -149   151   -25    26   -23    22 u=004  imp:n=1
00596  18  0.4487970E-01  -151   150   -25    26   -23    22 u=004  imp:n=1
00597   7  0.8235419E-01  -153   152   -21    18   -22    15 u=004  imp:n=1
00598   7  0.8235419E-01  -153   152   -21    18   -24    23 u=004  imp:n=1
00599   8  0.7986135E-01  -153   152   -21    25   -23    22 u=004  imp:n=1
00600   8  0.7986135E-01  -153   152   -26    18   -23    22 u=004  imp:n=1
00601   9  0.6943934E-01  -154   152   -25    26   -23    22 u=004  imp:n=1
00602   9  0.6943934E-01  -153   155   -25    26   -23    22 u=004  imp:n=1
00603  10  0.4603587E-01  -155   154   -25    26   -23    22 u=004  imp:n=1
00604  36  0.6435380E-01  -157   156   -48    18  -158    15 u=004  imp:n=1
00605  37  0.6435380E-01  -157   156   -48    18   -49   158 u=004  imp:n=1
00606  38  0.8323048E-01  -160   159   -48    18  -162   161 u=004  imp:n=1
00607  39  0.1185481E+00  -164   163   -48    18   -50    15 u=004  imp:n=1
00608  40  0.5178530E-01  -165   164   -48    18  -162   166 u=004  imp:n=1
00609  29  0.1183522E+00  -167   138   -48    18   -70    37 u=004  imp:n=1
00610  30  0.5464445E-01  -142   139   -48    18   -49    15 u=004  imp:n=1
00611  26  0.7164290E-01  -146   167   -48    18   -68    15 u=004  imp:n=1
00612  26  0.7164290E-01  -148   147   -48    18   -68    15 u=004  imp:n=1
00613  29  0.1183522E+00  -159   148   -48    18   -67    24 u=004  imp:n=1
00614  30  0.5464445E-01  -152   149   -48    18   -49    15 u=004  imp:n=1
00615  41  0.5279270E-01  -168   157   -48    18  -161    15 u=004  imp:n=1
00616  42  0.5392130E-01  -163   160   -48    18  -162   161 u=004  imp:n=1
00617  41  0.5279270E-01  -165   164   -48    18  -161    15 u=004  imp:n=1
00618  42  0.5392130E-01  -165   164   -48    18  -166   161 u=004  imp:n=1
00619  31  0.2714513E-01   -75    17   -48    18  -169   162 u=004  imp:n=1
00620  32  0.8823003E-01   -75    17   -48    18  -170   169 u=004  imp:n=1
00621  33  0.8829426E-01   -78    17   -48    18  -171   170 u=004  imp:n=1
00622  33  0.8829426E-01   -75    80   -48    18  -171   170 u=004  imp:n=1
00623   0                  -12     9   -14     4   -11     6 u=004 imp:n=1
00624   0                  -10    13   -14     4   -11     6 u=004 imp:n=1
00625   0                  -10     9    -7    14   -11     5 u=004 imp:n=1
00626   0                 -138    17   -21    18   -24     6 u=004 imp:n=1
00627   0                 -142   139   -25    18   -23    49 u=004 imp:n=1
00628   0                 -142   139   -25    48   -49    22 u=004 imp:n=1
00629   0                 -148   143   -21    48   -24     6 u=004 imp:n=1
00630   0                 -152   149   -25    18   -23    49 u=004 imp:n=1
00631   0                  -19   153   -21    48   -24     6 u=004 imp:n=1
00632   0                 -167   143   -48    26   -23    22 u=004 imp:n=1
00633   0                  -19   165   -48    18   -22    15 u=004 imp:n=1
00634   0                 -157   153   -48    18   -24    49 u=004 imp:n=1
00635   0                 -163   168   -48    26   -23    22 u=004 imp:n=1
00636   0                  -19   165   -48    26   -23    22 u=004 imp:n=1
00637   0                 -163   168   -48    18   -22    15 u=004 imp:n=1
00638   0                 -152   149   -25    48   -49    22 u=004 imp:n=1
00639   0                 -156   153   -48    18   -22    15 u=004 imp:n=1
00640   0                 -167   143   -48    18   -22    15 u=004 imp:n=1
00641   0                 -156   153   -48    26   -49    22 u=004 imp:n=1
00642   0                 -152   149   -21    48   -22    15 u=004 imp:n=1
00643   0                 -142   139   -21    48   -22    15 u=004 imp:n=1
00644   0                  -19   153   -21    48    -6    15 u=004 imp:n=1
00645   0                 -148   143   -21    48    -6    15 u=004 imp:n=1
00646   0                 -138    17   -21    18    -6    15 u=004 imp:n=1
00647   0                  -10    13   -14     4    -6     5 u=004 imp:n=1
00648   0                  -12     9   -14     4    -6     5 u=004 imp:n=1
00649   0                 -167   143   -26    18   -23    22 u=004 imp:n=1
00650   0                 -167   143   -48    18   -24    23 u=004 imp:n=1
00651   0                 -163   168   -26    18   -23    22 u=004 imp:n=1
00652   0                  -19   165   -26    18   -23    22 u=004 imp:n=1
00653   0                 -152   149   -21    18   -24    23 u=004 imp:n=1
00654   0                 -156   153   -26    18   -49    22 u=004 imp:n=1
00655   0                 -142   139   -21    18   -24    23 u=004 imp:n=1
00656   0                 -148   147   -48    18   -50    68 u=004 imp:n=1
00657   0                 -163   168   -48    18  -161    23 u=004 imp:n=1
00658   0                 -157   159   -48    18  -161    24 u=004 imp:n=1
00659   0                 -146   167   -48    18   -50    68 u=004 imp:n=1
00660   0                  -19    17   -14    21   -24    15 u=004 imp:n=1
00661   0                 -167    17   -48    18   -37    24 u=004 imp:n=1
00662   0                 -142   139   -21    25   -23    22 u=004 imp:n=1
00663   0                  -19   165   -48    18  -162    23 u=004 imp:n=1
00664   0                 -152   149   -21    25   -23    22 u=004 imp:n=1
00665   0                 -164   163   -48    18  -162    50 u=004 imp:n=1
00666   0                  -19    17   -14    18   -16   171 u=004 imp:n=1
```

```
00667   0                  -19    17   -14    48  -171    24 u=004 imp:n=1
00668   0                  -80    78   -48    18  -171   170 u=004 imp:n=1
00669   0                  -19    75   -48    18  -171   162 u=004 imp:n=1
00670   0                 -148   167   -48    18   -67    50 u=004 imp:n=1
00671   0                 -159   167   -48    18   -70    67 u=004 imp:n=1
00672   0                 -138    17   -48    18   -70    37 u=004 imp:n=1
00673   0                 -159    17   -48    18  -162    70 u=004 imp:n=1
00674   3  0.8540120E-01    -2     1    -4     3   -81    11 u=004  imp:n=1
00675   3  0.8540120E-01    -2     1    -8     7   -81    11 u=004  imp:n=1
00676   3  0.8540120E-01    -9     1    -7     4   -81    11 u=004  imp:n=1
00677   3  0.8540120E-01    -2    10    -7     4   -81    11 u=004  imp:n=1
00678  34  0.1035093E+00   -82     9   -83     4   -85    84 u=004  imp:n=1
00679   0                  -10     9    -7     4   -84    11 u=004 imp:n=1
00680   0                  -10     9    -7     4   -81    85 u=004 imp:n=1
00681   0                  -10     9    -7    83   -85    84 u=004 imp:n=1
00682   0                  -10    82   -83     4   -85    84 u=004 imp:n=1
00683   1  0.3030146E-01    -2     1    -4     3    -6     5 u=005  imp:n=1
00684   1  0.3030146E-01    -2     1    -8     7    -6     5 u=005  imp:n=1
00685   2  0.7570860E-01    -9     1    -7     4    -6     5 u=005  imp:n=1
00686   2  0.7570860E-01    -2    10    -7     4    -6     5 u=005  imp:n=1
00687   3  0.8540120E-01    -2     1    -4     3   -11     6 u=005  imp:n=1
00688   3  0.8540120E-01    -2     1    -8     7   -11     6 u=005  imp:n=1
00689   3  0.8540120E-01    -9     1    -7     4   -11     6 u=005  imp:n=1
00690   3  0.8540120E-01    -2    10    -7     4   -11     6 u=005  imp:n=1
00691   4  0.7332760E-01   -13    12   -14     4   -15     5 u=005  imp:n=1
00692   5  0.3966184E-01   -13    12   -14     4   -11    16 u=005  imp:n=1
00693   6  0.3747366E-01   -17    12   -14    18   -16    15 u=005  imp:n=1
00694   6  0.3747366E-01   -13    19   -14    18   -16    15 u=005  imp:n=1
00695   6  0.3747366E-01   -13    12   -18     4   -16    15 u=005  imp:n=1
00696  40  0.5178530E-01  -172   138   -48    18  -162   166 u=005  imp:n=1
00697  39  0.1185481E+00  -173   172   -48    18   -50    15 u=005  imp:n=1
00698  36  0.6435380E-01  -175   174   -48    18  -158    15 u=005  imp:n=1
00699  37  0.6435380E-01  -175   174   -48    18   -49   158 u=005  imp:n=1
00700  38  0.8323048E-01  -175   174   -48    18  -162   161 u=005  imp:n=1
00701   7  0.8235419E-01  -176   175   -21    18   -22    15 u=005  imp:n=1
00702   7  0.8235419E-01  -176   175   -21    18   -24    23 u=005  imp:n=1
00703   8  0.7986135E-01  -176   175   -21    25   -23    22 u=005  imp:n=1
00704   8  0.7986135E-01  -176   175   -26    18   -23    22 u=005  imp:n=1
00705   9  0.6943934E-01  -177   175   -25    26   -23    22 u=005  imp:n=1
00706   9  0.6943934E-01  -176   178   -25    26   -23    22 u=005  imp:n=1
00707  10  0.4603587E-01  -178   177   -25    26   -23    22 u=005  imp:n=1
00708  15  0.8003452E-01  -180   179   -21    18   -22    15 u=005  imp:n=1
00709  15  0.8003452E-01  -180   179   -21    18   -24    23 u=005  imp:n=1
00710  16  0.7744373E-01  -180   179   -21    25   -23    22 u=005  imp:n=1
00711  16  0.7744373E-01  -180   179   -26    18   -23    22 u=005  imp:n=1
00712  17  0.6733980E-01  -181   179   -25    26   -23    22 u=005  imp:n=1
00713  17  0.6733980E-01  -180   182   -25    26   -23    22 u=005  imp:n=1
00714  18  0.4487970E-01  -182   181   -25    26   -23    22 u=005  imp:n=1
00715  23  0.1232400E+00  -184   183   -48    18   -49    15 u=005  imp:n=1
00716  24  0.1232187E+00  -184   183   -48    18   -50    49 u=005  imp:n=1
00717  43  0.4548021E-01  -186   185   -48    18  -187    15 u=005  imp:n=1
00718  44  0.8022954E-01  -188   185   -21    18  -189   187 u=005  imp:n=1
00719  44  0.8022954E-01  -188   185   -21    18   -24    23 u=005  imp:n=1
00720  45  0.7761880E-01  -188   185   -21    25   -23   189 u=005  imp:n=1
00721  45  0.7761880E-01  -188   185   -26    18   -23   189 u=005  imp:n=1
00722  46  0.6750312E-01  -190   185   -25    26   -23   189 u=005  imp:n=1
00723  46  0.6750312E-01  -188   191   -25    26   -23   189 u=005  imp:n=1
00724  47  0.4595639E-01  -191   190   -25    26   -23   189 u=005  imp:n=1
00725   7  0.8235419E-01  -193   192   -21    18   -22    15 u=005  imp:n=1
00726   7  0.8235419E-01  -193   192   -21    18   -24    23 u=005  imp:n=1
00727   8  0.7986135E-01  -193   192   -21    25   -23    22 u=005  imp:n=1
00728   8  0.7986135E-01  -193   192   -26    18   -23    22 u=005  imp:n=1
00729   9  0.6943934E-01  -194   192   -25    26   -23    22 u=005  imp:n=1
00730   9  0.6943934E-01  -193   195   -25    26   -23    22 u=005  imp:n=1
00731  10  0.4603587E-01  -195   194   -25    26   -23    22 u=005  imp:n=1
00732  41  0.5279270E-01  -172   138   -48    18  -161    15 u=005  imp:n=1
00733  42  0.5392130E-01  -172   138   -48    18  -166   161 u=005  imp:n=1
00734  41  0.5279270E-01  -174   173   -48    18  -161    15 u=005  imp:n=1
00735  42  0.5392130E-01  -174   173   -48    18  -162   161 u=005  imp:n=1
00736  29  0.1183522E+00  -196   175   -48    18   -67    24 u=005  imp:n=1
00737  30  0.5464445E-01  -179   176   -48    18   -49    15 u=005  imp:n=1
00738  26  0.7164290E-01  -183   196   -48    18   -68    15 u=005  imp:n=1
00739  26  0.7164290E-01  -185   184   -48    18   -68    15 u=005  imp:n=1
00740  29  0.1183522E+00  -165   185   -48    18   -70    37 u=005  imp:n=1
00741  30  0.5464445E-01  -192   188   -48    18   -49    15 u=005  imp:n=1
00742  31  0.2714513E-01   -75    17   -48    18  -169   162 u=005  imp:n=1
```

```
00743  32  0.8823003E-01   -75    17   -48    18  -170   169 u=005  imp:n=1
00744  33  0.8829426E-01   -78    17   -48    18  -171   170 u=005  imp:n=1
00745  33  0.8829426E-01   -75    80   -48    18  -171   170 u=005  imp:n=1
00746   0                  -12     9   -14     4   -11     6 u=005 imp:n=1
00747   0                  -10    13   -14     4   -11     6 u=005 imp:n=1
00748   0                  -10     9    -7    14   -11     5 u=005 imp:n=1
00749   0                 -175    17   -21    48   -24     6 u=005 imp:n=1
00750   0                 -179   176   -21    48   -24     6 u=005 imp:n=1
00751   0                 -192   180   -21    48  -187     6 u=005 imp:n=1
00752   0                  -19   193   -25    48   -23    22 u=005 imp:n=1
00753   0                 -185   180   -25    48   -23   187 u=005 imp:n=1
00754   0                 -192   188   -25    48   -23   187 u=005 imp:n=1
00755   0                 -188   186   -48    18    -6    15 u=005 imp:n=1
00756   0                 -196   180   -48    18    -6    15 u=005 imp:n=1
00757   0                  -19   193   -21    18   -22    15 u=005 imp:n=1
00758   0                 -192   180   -21    48    -6    15 u=005 imp:n=1
00759   0                  -19    17   -14    21   -24    15 u=005 imp:n=1
00760   0                 -179   176   -21    48    -6    15 u=005 imp:n=1
00761   0                 -175    17   -21    48    -6    15 u=005 imp:n=1
00762   0                  -10    13   -14     4    -6     5 u=005 imp:n=1
00763   0                  -19   193   -21    25   -23    22 u=005 imp:n=1
00764   0                 -185   180   -21    25   -23   187 u=005 imp:n=1
00765   0                 -192   188   -21    25   -23   187 u=005 imp:n=1
00766   0                  -12     9   -14     4    -6     5 u=005 imp:n=1
00767   0                 -185   196   -48    18   -67    50 u=005 imp:n=1
00768   0                 -185   175   -48    18   -70    67 u=005 imp:n=1
00769   0                  -19    17   -14    48  -171    24 u=005 imp:n=1
00770   0                  -19   175   -48    18  -162    70 u=005 imp:n=1
00771   0                 -173   172   -48    18  -162    50 u=005 imp:n=1
00772   0                  -19    75   -48    18  -171   162 u=005 imp:n=1
00773   0                 -185   180   -21    48   -24    23 u=005 imp:n=1
00774   0                 -192   188   -21    18   -24    23 u=005 imp:n=1
00775   0                  -19   193   -21    18   -24    23 u=005 imp:n=1
00776   0                 -138    17   -48    18  -162    15 u=005 imp:n=1
00777   0                  -80    78   -48    18  -171   170 u=005 imp:n=1
00778   0                 -175   174   -48    18  -161    49 u=005 imp:n=1
00779   0                 -179   176   -48    18   -24    49 u=005 imp:n=1
00780   0                 -196   180   -48    18   -24    49 u=005 imp:n=1
00781   0                 -192   188   -48    18   -23    49 u=005 imp:n=1
00782   0                  -19   193   -48    18   -23    49 u=005 imp:n=1
00783   0                  -19    17   -14    18   -16   171 u=005 imp:n=1
00784   0                  -19   193   -26    18  -158    22 u=005 imp:n=1
00785   0                 -188   186   -48    18  -187     6 u=005 imp:n=1
00786   0                  -19   193   -48    26  -158    22 u=005 imp:n=1
00787   0                 -196   180   -48    18  -158     6 u=005 imp:n=1
00788   0                  -19   193   -48    18   -49   158 u=005 imp:n=1
00789   0                  -19   185   -48    18   -37    24 u=005 imp:n=1
00790   0                  -19   165   -48    18   -70    37 u=005 imp:n=1
00791   0                 -196   180   -48    18   -49   158 u=005 imp:n=1
00792   0                 -185   184   -48    18   -50    68 u=005 imp:n=1
00793   0                 -183   196   -48    18   -50    68 u=005 imp:n=1
00794   3  0.8540120E-01    -2     1    -4     3   -81    11 u=005  imp:n=1
00795   3  0.8540120E-01    -2     1    -8     7   -81    11 u=005  imp:n=1
00796   3  0.8540120E-01    -9     1    -7     4   -81    11 u=005  imp:n=1
00797   3  0.8540120E-01    -2    10    -7     4   -81    11 u=005  imp:n=1
00798  34  0.1035093E+00   -82     9   -83     4   -85    84 u=005  imp:n=1
00799   0                  -10     9    -7     4   -84    11 u=005 imp:n=1
00800   0                  -10     9    -7     4   -81    85 u=005 imp:n=1
00801   0                  -10     9    -7    83   -85    84 u=005 imp:n=1
00802   0                  -10    82   -83     4   -85    84 u=005 imp:n=1
00803   1  0.3030146E-01    -2     1    -4     3    -6     5 u=006  imp:n=1
00804   1  0.3030146E-01    -2     1    -8     7    -6     5 u=006  imp:n=1
00805   2  0.7570860E-01    -9     1    -7     4    -6     5 u=006  imp:n=1
00806   2  0.7570860E-01    -2    10    -7     4    -6     5 u=006  imp:n=1
00807   3  0.8540120E-01    -2     1    -4     3   -11     6 u=006  imp:n=1
00808   3  0.8540120E-01    -2     1    -8     7   -11     6 u=006  imp:n=1
00809   3  0.8540120E-01    -9     1    -7     4   -11     6 u=006  imp:n=1
00810   3  0.8540120E-01    -2    10    -7     4   -11     6 u=006  imp:n=1
00811   4  0.7332760E-01   -13    12   -14     4   -15     5 u=006  imp:n=1
00812   5  0.3966184E-01   -13    12   -14     4   -11    16 u=006  imp:n=1
00813   6  0.3747366E-01   -17    12   -14    18   -16    15 u=006  imp:n=1
00814   6  0.3747366E-01   -13    19   -14    18   -16    15 u=006  imp:n=1
00815   6  0.3747366E-01   -13    12   -18     4   -16    15 u=006  imp:n=1
00816  40  0.5178530E-01   -75    17  -198   197  -162   166 u=006  imp:n=1
00817   7  0.8235419E-01   -19    17  -200   199   -22    15 u=006  imp:n=1
00818   7  0.8235419E-01   -19    17  -200   199   -24    23 u=006  imp:n=1
```

```
00819   8  0.7986135E-01   -19   201  -200   199   -23    22 u=006  imp:n=1
00820   8  0.7986135E-01  -202    17  -200   199   -23    22 u=006  imp:n=1
00821   9  0.6943934E-01  -201   202  -203   199   -23    22 u=006  imp:n=1
00822   9  0.6943934E-01  -201   202  -200   204   -23    22 u=006  imp:n=1
00823  10  0.4603587E-01  -201   202  -204   203   -23    22 u=006  imp:n=1
00824  36  0.6435380E-01   -75    17  -205   200  -158    15 u=006  imp:n=1
00825  38  0.8323048E-01   -75    17  -207   206  -162   161 u=006  imp:n=1
00826  37  0.6435380E-01   -75    17  -205   200   -49   158 u=006  imp:n=1
00827  48  0.1333519E+00   -75    17  -208   198   -49   158 u=006  imp:n=1
00828  24  0.1232187E+00   -75    17  -208   198   -50    49 u=006  imp:n=1
00829  39  0.1185481E+00   -75    17  -197   209   -50    15 u=006  imp:n=1
00830  28  0.1187656E+00   -75    17  -199   210   -49    15 u=006  imp:n=1
00831   7  0.8235419E-01   -19    17  -210   211   -22    15 u=006  imp:n=1
00832   7  0.8235419E-01   -19    17  -210   211   -24    23 u=006  imp:n=1
00833   8  0.7986135E-01   -19   201  -210   211   -23    22 u=006  imp:n=1
00834   8  0.7986135E-01  -202    17  -210   211   -23    22 u=006  imp:n=1
00835   9  0.6943934E-01  -201   202  -212   211   -23    22 u=006  imp:n=1
00836   9  0.6943934E-01  -201   202  -210   213   -23    22 u=006  imp:n=1
00837  10  0.4603587E-01  -201   202  -213   212   -23    22 u=006  imp:n=1
00838  26  0.7164290E-01   -75    17  -215   214   -68    15 u=006  imp:n=1
00839   7  0.8235419E-01   -19    17  -214    18   -22    15 u=006  imp:n=1
00840   7  0.8235419E-01   -19    17  -214    18   -24    23 u=006  imp:n=1
00841   8  0.7986135E-01   -19   201  -214    18   -23    22 u=006  imp:n=1
00842   8  0.7986135E-01  -202    17  -214    18   -23    22 u=006  imp:n=1
00843   9  0.6943934E-01  -201   202  -216    18   -23    22 u=006  imp:n=1
00844   9  0.6943934E-01  -201   202  -214   217   -23    22 u=006  imp:n=1
00845  10  0.4603587E-01  -201   202  -217   216   -23    22 u=006  imp:n=1
00846  25  0.1201037E+00   -75    17  -218    18   -67    24 u=006  imp:n=1
00847  29  0.1183522E+00   -75    17  -206   219   -67    24 u=006  imp:n=1
00848  41  0.5279270E-01   -75    17  -198   197  -161    15 u=006  imp:n=1
00849  42  0.5392130E-01   -75    17  -198   197  -166   161 u=006  imp:n=1
00850  41  0.5279270E-01   -75    17  -209   205  -161    15 u=006  imp:n=1
00851  42  0.5392130E-01   -75    17  -220   207  -162   161 u=006  imp:n=1
00852  49  0.1333121E+00   -75    17  -208   198  -221    15 u=006  imp:n=1
00853  49  0.1333121E+00   -75    17  -208   198  -158   221 u=006  imp:n=1
00854  31  0.2714513E-01   -75    17   -48    18  -169   162 u=006  imp:n=1
00855  32  0.8823003E-01   -75    17   -48    18  -170   169 u=006  imp:n=1
00856  33  0.8829426E-01   -78    17   -48    18  -171   170 u=006  imp:n=1
00857  33  0.8829426E-01   -75    80   -48    18  -171   170 u=006  imp:n=1
00858   0                  -12     9   -14     4   -11     6 u=006 imp:n=1
00859   0                  -10    13   -14     4   -11     6 u=006 imp:n=1
00860   0                  -10     9    -7    14   -11     5 u=006 imp:n=1
00861   0                  -19    17  -211   215   -24    15 u=006 imp:n=1
00862   0                  -19    75  -215   214   -68    15 u=006 imp:n=1
00863   0                  -19    17  -199   210   -24    49 u=006 imp:n=1
00864   0                  -19    75  -198   200   -22    15 u=006 imp:n=1
00865   0                  -19    75  -198   200    -6    22 u=006 imp:n=1
00866   0                  -19    75  -199   210   -49    15 u=006 imp:n=1
00867   0                  -19    17  -205   200   -24    49 u=006 imp:n=1
00868   0                  -19    75  -208   205   -23    49 u=006 imp:n=1
00869   0                  -10    13   -14     4    -6     5 u=006 imp:n=1
00870   0                  -12     9   -14     4    -6     5 u=006 imp:n=1
00871   0                  -19    17   -14   208   -50    15 u=006 imp:n=1
00872   0                  -19    75  -208   200   -49   158 u=006 imp:n=1
00873   0                  -19    75  -198   197  -162   166 u=006 imp:n=1
00874   0                  -19    75  -208   198   -50   166 u=006 imp:n=1
00875   0                  -19    17   -14   198  -162    50 u=006 imp:n=1
00876   0                  -19    75  -197   209   -50   166 u=006 imp:n=1
00877   0                  -19    75  -220   206  -162   166 u=006 imp:n=1
00878   0                  -19    75  -198   200  -158     6 u=006 imp:n=1
00879   0                  -19    17  -197   220  -162    50 u=006 imp:n=1
00880   0                  -19    75  -208   198  -158    15 u=006 imp:n=1
00881   0                  -19    17  -206    18  -162    67 u=006 imp:n=1
00882   0                  -19    75   -48    18  -171   162 u=006 imp:n=1
00883   0                  -80    78   -48    18  -171   170 u=006 imp:n=1
00884   0                  -19    17   -14    48  -171   162 u=006 imp:n=1
00885   0                  -19    17   -14    18   -16   171 u=006 imp:n=1
00886   0                  -19    17  -214   218   -68    24 u=006 imp:n=1
00887   0                  -19    75  -218    18   -67    24 u=006 imp:n=1
00888   0                  -19    17  -219   215   -68    24 u=006 imp:n=1
00889   0                  -19    17  -205   206  -161    24 u=006 imp:n=1
00890   0                  -19    75  -208   205  -161    24 u=006 imp:n=1
00891   0                  -19    75  -206   219   -67    24 u=006 imp:n=1
00892   0                  -19    75  -208   205   -24    23 u=006 imp:n=1
00893   0                  -19    75  -208   209  -166   161 u=006 imp:n=1
00894   0                  -19    75  -220   206  -166   161 u=006 imp:n=1
```

```
00895   0                   -19    17  -209   220   -50   161 u=006 imp:n=1
00896   0                   -19    17  -219   218   -67    68 u=006 imp:n=1
00897   3  0.8540120E-01     -2     1    -4     3   -81    11 u=006  imp:n=1
00898   3  0.8540120E-01     -2     1    -8     7   -81    11 u=006  imp:n=1
00899   3  0.8540120E-01     -9     1    -7     4   -81    11 u=006  imp:n=1
00900   3  0.8540120E-01     -2    10    -7     4   -81    11 u=006  imp:n=1
00901  34  0.1035093E+00    -82     9   -83     4   -85    84 u=006  imp:n=1
00902   0                   -10     9    -7     4   -84    11 u=006 imp:n=1
00903   0                   -10     9    -7     4   -81    85 u=006 imp:n=1
00904   0                   -10     9    -7    83   -85    84 u=006 imp:n=1
00905   0                   -10    82   -83     4   -85    84 u=006 imp:n=1
00906   1  0.3030146E-01     -2     1    -4     3    -6     5 u=007  imp:n=1
00907   1  0.3030146E-01     -2     1    -8     7    -6     5 u=007  imp:n=1
00908   2  0.7570860E-01     -9     1    -7     4    -6     5 u=007  imp:n=1
00909   2  0.7570860E-01     -2    10    -7     4    -6     5 u=007  imp:n=1
00910   3  0.8540120E-01     -2     1    -4     3   -11     6 u=007  imp:n=1
00911   3  0.8540120E-01     -2     1    -8     7   -11     6 u=007  imp:n=1
00912   3  0.8540120E-01     -9     1    -7     4   -11     6 u=007  imp:n=1
00913   3  0.8540120E-01     -2    10    -7     4   -11     6 u=007  imp:n=1
00914   4  0.7332760E-01    -13    12   -14     4   -15     5 u=007  imp:n=1
00915   5  0.3966184E-01    -13    12   -14     4   -11    16 u=007  imp:n=1
00916   6  0.3747366E-01    -17    12   -14    18   -16    15 u=007  imp:n=1
00917   6  0.3747366E-01    -13    19   -14    18   -16    15 u=007  imp:n=1
00918   6  0.3747366E-01    -13    12   -18     4   -16    15 u=007  imp:n=1
00919  40  0.5178530E-01    -75    17  -223   222  -162   166 u=007  imp:n=1
00920   7  0.8235419E-01    -19    17  -225   224   -22    15 u=007  imp:n=1
00921   7  0.8235419E-01    -19    17  -225   224   -24    23 u=007  imp:n=1
00922   8  0.7986135E-01    -19   201  -225   224   -23    22 u=007  imp:n=1
00923   8  0.7986135E-01   -202    17  -225   224   -23    22 u=007  imp:n=1
00924   9  0.6943934E-01   -201   202  -226   224   -23    22 u=007  imp:n=1
00925   9  0.6943934E-01   -201   202  -225   227   -23    22 u=007  imp:n=1
00926  10  0.4603587E-01   -201   202  -227   226   -23    22 u=007  imp:n=1
00927  36  0.6435380E-01    -75    17  -224   228  -158    15 u=007  imp:n=1
00928  38  0.8323048E-01    -75    17  -224   228  -162   161 u=007  imp:n=1
00929  37  0.6435380E-01    -75    17  -224   228   -49   158 u=007  imp:n=1
00930  48  0.1333519E+00    -75    17  -222    18   -49   158 u=007  imp:n=1
00931  24  0.1232187E+00    -75    17  -222    18   -50    49 u=007  imp:n=1
00932  39  0.1185481E+00    -75    17  -229   223   -50    15 u=007  imp:n=1
00933  28  0.1187656E+00    -75    17  -230   225   -49    15 u=007  imp:n=1
00934   7  0.8235419E-01    -19    17  -231   230   -22    15 u=007  imp:n=1
00935   7  0.8235419E-01    -19    17  -231   230   -24    23 u=007  imp:n=1
00936   8  0.7986135E-01    -19   201  -231   230   -23    22 u=007  imp:n=1
00937   8  0.7986135E-01   -202    17  -231   230   -23    22 u=007  imp:n=1
00938   9  0.6943934E-01   -201   202  -232   230   -23    22 u=007  imp:n=1
00939   9  0.6943934E-01   -201   202  -231   233   -23    22 u=007  imp:n=1
00940  10  0.4603587E-01   -201   202  -233   232   -23    22 u=007  imp:n=1
00941  26  0.7164290E-01    -75    17  -235   234   -68    15 u=007  imp:n=1
00942   7  0.8235419E-01    -19    17  -237   236   -22    15 u=007  imp:n=1
00943   7  0.8235419E-01    -19    17  -237   236   -24    23 u=007  imp:n=1
00944   8  0.7986135E-01    -19   201  -237   236   -23    22 u=007  imp:n=1
00945   8  0.7986135E-01   -202    17  -237   236   -23    22 u=007  imp:n=1
00946   9  0.6943934E-01   -201   202  -238   236   -23    22 u=007  imp:n=1
00947   9  0.6943934E-01   -201   202  -237   239   -23    22 u=007  imp:n=1
00948  10  0.4603587E-01   -201   202  -239   238   -23    22 u=007  imp:n=1
00949  25  0.1201037E+00    -75    17   -48   236   -67    24 u=007  imp:n=1
00950  29  0.1183522E+00    -75    17  -240   224   -67    24 u=007  imp:n=1
00951  41  0.5279270E-01    -75    17  -223   222  -161    15 u=007  imp:n=1
00952  42  0.5392130E-01    -75    17  -223   222  -166   161 u=007  imp:n=1
00953  41  0.5279270E-01    -75    17  -228   229  -161    15 u=007  imp:n=1
00954  42  0.5392130E-01    -75    17  -228   229  -162   161 u=007  imp:n=1
00955  49  0.1333121E+00    -75    17  -222    18  -221    15 u=007  imp:n=1
00956  49  0.1333121E+00    -75    17  -222    18  -158   221 u=007  imp:n=1
00957  31  0.2714513E-01    -75    17   -48    18  -169   162 u=007  imp:n=1
00958  32  0.8823003E-01    -75    17   -48    18  -170   169 u=007  imp:n=1
00959  33  0.8829426E-01    -78    17   -48    18  -171   170 u=007  imp:n=1
00960  33  0.8829426E-01    -75    80   -48    18  -171   170 u=007  imp:n=1
00961   0                   -12     9   -14     4   -11     6 u=007 imp:n=1
00962   0                   -10    13   -14     4   -11     6 u=007 imp:n=1
00963   0                   -10     9    -7    14   -11     5 u=007 imp:n=1
00964   0                   -19    75  -228    18   -23    49 u=007 imp:n=1
00965   0                   -19    17  -224   228  -161    49 u=007 imp:n=1
00966   0                   -19    75  -224    18   -22    15 u=007 imp:n=1
00967   0                   -19    75  -224    18    -6    22 u=007 imp:n=1
00968   0                   -10    13   -14     4    -6     5 u=007 imp:n=1
00969   0                   -19    75  -224    18   -49   158 u=007 imp:n=1
00970   0                   -12     9   -14     4    -6     5 u=007 imp:n=1
```

```
00971   0                  -19    75  -223   222  -162   166 u=007 imp:n=1
00972   0                  -19    17   -14   224  -162    67 u=007 imp:n=1
00973   0                  -19    75  -224    18  -158     6 u=007 imp:n=1
00974   0                  -19    75  -229   223   -50   166 u=007 imp:n=1
00975   0                  -19    75  -224   229  -162   166 u=007 imp:n=1
00976   0                  -19    17  -229   223  -162    50 u=007 imp:n=1
00977   0                  -19    75  -222    18   -50   166 u=007 imp:n=1
00978   0                  -19    17  -222    18  -162    50 u=007 imp:n=1
00979   0                  -19    17  -230   225   -24    49 u=007 imp:n=1
00980   0                  -19    17  -234   231   -24    15 u=007 imp:n=1
00981   0                  -19    17  -236   235   -68    15 u=007 imp:n=1
00982   0                  -19    17   -14   237   -24    15 u=007 imp:n=1
00983   0                  -19    75  -235   234   -68    15 u=007 imp:n=1
00984   0                  -19    75   -48    18  -171   162 u=007 imp:n=1
00985   0                  -80    78   -48    18  -171   170 u=007 imp:n=1
00986   0                  -19    17   -14    48  -171   162 u=007 imp:n=1
00987   0                  -19    17   -14    18   -16   171 u=007 imp:n=1
00988   0                  -19    75  -230   225   -49    15 u=007 imp:n=1
00989   0                  -19    75  -228    18  -161    24 u=007 imp:n=1
00990   0                  -19    75  -228    18   -24    23 u=007 imp:n=1
00991   0                  -19    17  -236   240   -67    68 u=007 imp:n=1
00992   0                  -19    17  -234   240   -68    24 u=007 imp:n=1
00993   0                  -19    75  -240   224   -67    24 u=007 imp:n=1
00994   0                  -19    75  -224    18  -166   161 u=007 imp:n=1
00995   0                  -19    17   -14    48   -67    24 u=007 imp:n=1
00996   0                  -19    75   -48   236   -67    24 u=007 imp:n=1
00997   3  0.8540120E-01    -2     1    -4     3   -81    11 u=007  imp:n=1
00998   3  0.8540120E-01    -2     1    -8     7   -81    11 u=007  imp:n=1
00999   3  0.8540120E-01    -9     1    -7     4   -81    11 u=007  imp:n=1
01000   3  0.8540120E-01    -2    10    -7     4   -81    11 u=007  imp:n=1
01001  34  0.1035093E+00   -82     9   -83     4   -85    84 u=007  imp:n=1
01002   0                  -10     9    -7     4   -84    11 u=007 imp:n=1
01003   0                  -10     9    -7     4   -81    85 u=007 imp:n=1
01004   0                  -10     9    -7    83   -85    84 u=007 imp:n=1
01005   0                  -10    82   -83     4   -85    84 u=007 imp:n=1
01006   1  0.3030146E-01    -2     1    -4     3    -6     5 u=008  imp:n=1
01007   1  0.3030146E-01    -2     1    -8     7    -6     5 u=008  imp:n=1
01008   2  0.7570860E-01    -9     1    -7     4    -6     5 u=008  imp:n=1
01009   2  0.7570860E-01    -2    10    -7     4    -6     5 u=008  imp:n=1
01010   3  0.8540120E-01    -2     1    -4     3   -11     6 u=008  imp:n=1
01011   3  0.8540120E-01    -2     1    -8     7   -11     6 u=008  imp:n=1
01012   3  0.8540120E-01    -9     1    -7     4   -11     6 u=008  imp:n=1
01013   3  0.8540120E-01    -2    10    -7     4   -11     6 u=008  imp:n=1
01014   4  0.7332760E-01   -13    12   -14     4   -15     5 u=008  imp:n=1
01015   5  0.3966184E-01   -13    12   -14     4   -11    16 u=008  imp:n=1
01016   6  0.3747366E-01   -17    12   -14    18   -16    15 u=008  imp:n=1
01017   6  0.3747366E-01   -13    19   -14    18   -16    15 u=008  imp:n=1
01018   6  0.3747366E-01   -13    12   -18     4   -16    15 u=008  imp:n=1
01019  50  0.1387665E+00  -117   202   -48    18  -241    49 u=008  imp:n=1
01020  51  0.1119518E+00  -147   146   -48    18  -242    15 u=008  imp:n=1
01021  52  0.1112539E+00  -147   146   -48    18  -243   242 u=008  imp:n=1
01022   7  0.8235419E-01  -244   117   -21    18   -22    15 u=008  imp:n=1
01023   7  0.8235419E-01  -244   117   -21    18   -24    23 u=008  imp:n=1
01024   8  0.7986135E-01  -244   117   -21    25   -23    22 u=008  imp:n=1
01025   8  0.7986135E-01  -244   117   -26    18   -23    22 u=008  imp:n=1
01026   9  0.6943934E-01  -245   117   -25    26   -23    22 u=008  imp:n=1
01027   9  0.6943934E-01  -244   246   -25    26   -23    22 u=008  imp:n=1
01028  10  0.4603587E-01  -246   245   -25    26   -23    22 u=008  imp:n=1
01029  53  0.8228339E-01  -247   117   -48    18  -248    70 u=008  imp:n=1
01030  54  0.2192774E-01  -247   117   -48    18  -250   249 u=008  imp:n=1
01031  55  0.7070584E-01  -247   117   -48   251  -249   248 u=008  imp:n=1
01032  55  0.7070584E-01  -247   117  -252    18  -249   248 u=008  imp:n=1
01033  56  0.6618348E-01  -253   117  -251   252  -249   248 u=008  imp:n=1
01034  56  0.6618348E-01  -247   254  -251   252  -249   248 u=008  imp:n=1
01035   0                 -254   253  -251   252  -249   248 u=008 imp:n=1
01036  53  0.8228339E-01  -201   247   -48    18  -248    70 u=008  imp:n=1
01037  54  0.2192774E-01  -201   247   -48    18  -250   249 u=008  imp:n=1
01038  55  0.7070584E-01  -201   247   -48   251  -249   248 u=008  imp:n=1
01039  55  0.7070584E-01  -201   247  -252    18  -249   248 u=008  imp:n=1
01040  56  0.6618348E-01  -255   247  -251   252  -249   248 u=008  imp:n=1
01041  56  0.6618348E-01  -201   256  -251   252  -249   248 u=008  imp:n=1
01042   0                 -256   255  -251   252  -249   248 u=008 imp:n=1
01043  15  0.8003452E-01  -258   257   -21    18   -22    15 u=008  imp:n=1
01044  15  0.8003452E-01  -258   257   -21    18   -24    23 u=008  imp:n=1
01045  16  0.7744373E-01  -258   257   -21    25   -23    22 u=008  imp:n=1
01046  16  0.7744373E-01  -258   257   -26    18   -23    22 u=008  imp:n=1
```

```
01047  17  0.6733980E-01  -259   257   -25    26   -23    22 u=008  imp:n=1
01048  17  0.6733980E-01  -258   260   -25    26   -23    22 u=008  imp:n=1
01049  18  0.4487970E-01  -260   259   -25    26   -23    22 u=008  imp:n=1
01050  23  0.1232400E+00  -120   119   -48    18   -49    15 u=008  imp:n=1
01051  24  0.1232187E+00  -120   119   -48    18   -50    49 u=008  imp:n=1
01052  15  0.8003452E-01  -107   106   -21    18   -22    15 u=008  imp:n=1
01053  15  0.8003452E-01  -107   106   -21    18   -24    23 u=008  imp:n=1
01054  16  0.7744373E-01  -107   106   -21    25   -23    22 u=008  imp:n=1
01055  16  0.7744373E-01  -107   106   -26    18   -23    22 u=008  imp:n=1
01056  17  0.6733980E-01  -108   106   -25    26   -23    22 u=008  imp:n=1
01057  17  0.6733980E-01  -107   109   -25    26   -23    22 u=008  imp:n=1
01058  18  0.4487970E-01  -109   108   -25    26   -23    22 u=008  imp:n=1
01059  11  0.7961518E-01  -111   110   -21    18   -22    15 u=008  imp:n=1
01060  11  0.7961518E-01  -111   110   -21    18   -32    31 u=008  imp:n=1
01061  12  0.7714468E-01  -111   110   -21    25   -31    22 u=008  imp:n=1
01062  12  0.7714468E-01  -111   110   -26    18   -31    22 u=008  imp:n=1
01063  13  0.6712964E-01  -112   110   -25    26   -31    22 u=008  imp:n=1
01064  13  0.6712964E-01  -111   113   -25    26   -31    22 u=008  imp:n=1
01065  14  0.4579853E-01  -113   112   -25    26   -31    22 u=008  imp:n=1
01066  11  0.7961518E-01  -111   110   -21    18   -35    32 u=008  imp:n=1
01067  11  0.7961518E-01  -111   110   -21    18   -37    36 u=008  imp:n=1
01068  12  0.7714468E-01  -111   110   -21    25   -36    35 u=008  imp:n=1
01069  12  0.7714468E-01  -111   110   -26    18   -36    35 u=008  imp:n=1
01070  13  0.6712964E-01  -112   110   -25    26   -36    35 u=008  imp:n=1
01071  13  0.6712964E-01  -111   113   -25    26   -36    35 u=008  imp:n=1
01072  14  0.4579853E-01  -113   112   -25    26   -36    35 u=008  imp:n=1
01073  58  0.1026764E+00  -261   202   -48    18   -49    15 u=008  imp:n=1
01074  58  0.1026764E+00  -262   261   -48    18   -49    15 u=008  imp:n=1
01075  58  0.1026764E+00  -146   262   -48    18   -49    15 u=008  imp:n=1
01076  58  0.1026764E+00  -263   146   -48    18   -49   243 u=008  imp:n=1
01077  58  0.1026764E+00  -147   263   -48    18   -49   243 u=008  imp:n=1
01078  58  0.1026764E+00  -264   147   -48    18   -49    15 u=008  imp:n=1
01079  58  0.1026764E+00   -46   264   -48    18   -49    15 u=008  imp:n=1
01080  58  0.1026764E+00  -117    46   -48    18   -49    15 u=008  imp:n=1
01081  29  0.1183522E+00  -118   117   -48    18   -67    24 u=008  imp:n=1
01082  30  0.5464445E-01  -257   244   -48    18   -49    15 u=008  imp:n=1
01083  26  0.7164290E-01  -119   118   -48    18   -68    15 u=008  imp:n=1
01084  26  0.7164290E-01  -106   120   -48    18   -68    15 u=008  imp:n=1
01085  29  0.1183522E+00  -121   106   -48    18   -70    37 u=008  imp:n=1
01086  30  0.5464445E-01  -110   107   -48    18   -49    15 u=008  imp:n=1
01087  31  0.2714513E-01   -75    17   -48    18  -265   250 u=008  imp:n=1
01088   0                  -12     9   -14     4   -11     6 u=008 imp:n=1
01089   0                  -10    13   -14     4   -11     6 u=008 imp:n=1
01090   0                  -10     9    -7    14   -11     5 u=008 imp:n=1
01091   0                 -117    17   -21    48   -49   243 u=008 imp:n=1
01092   0                 -202    17   -48    18  -241    15 u=008 imp:n=1
01093   0                 -257   244   -21    48   -49   243 u=008 imp:n=1
01094   0                 -106   258   -21    48   -49   243 u=008 imp:n=1
01095   0                 -110   107   -21    48   -49   243 u=008 imp:n=1
01096   0                  -19   111   -21    18   -49   243 u=008 imp:n=1
01097   0                 -118   258   -48    18   -49   243 u=008 imp:n=1
01098   0                 -118   258   -48    18    -6    15 u=008 imp:n=1
01099   0                  -19   111   -21    18   -22    15 u=008 imp:n=1
01100   0                 -110   107   -21    48   -22    15 u=008 imp:n=1
01101   0                 -106   258   -21    48    -6    15 u=008 imp:n=1
01102   0                  -19    17   -14    21   -37    15 u=008 imp:n=1
01103   0                 -257   244   -21    48    -6    15 u=008 imp:n=1
01104   0                 -117    17   -21    48    -6    15 u=008 imp:n=1
01105   0                  -10    13   -14     4    -6     5 u=008 imp:n=1
01106   0                  -12     9   -14     4    -6     5 u=008 imp:n=1
01107   0                 -117    17   -21    48  -243   242 u=008 imp:n=1
01108   0                 -257   244   -21    48  -243   242 u=008 imp:n=1
01109   0                 -106   258   -21    48  -243   242 u=008 imp:n=1
01110   0                 -110   107   -25    48  -243    22 u=008 imp:n=1
01111   0                  -19   111   -25    48  -243    22 u=008 imp:n=1
01112   0                  -19   201   -48    18  -241    70 u=008 imp:n=1
01113   0                 -106   120   -48    18   -50    68 u=008 imp:n=1
01114   0                  -19   111   -48    18   -37    24 u=008 imp:n=1
01115   0                 -110   106   -48    18   -37    24 u=008 imp:n=1
01116   0                 -119   118   -48    18   -50    68 u=008 imp:n=1
01117   0                 -106   118   -48    18   -67    50 u=008 imp:n=1
01118   0                  -19   121   -48    18   -70    37 u=008 imp:n=1
01119   0                 -106   117   -48    18   -70    67 u=008 imp:n=1
01120   0                 -118   258   -48    18   -24    49 u=008 imp:n=1
01121   0                 -257   244   -48    18   -24    49 u=008 imp:n=1
01122   0                 -110   107   -21    25  -243    22 u=008 imp:n=1
```

```
01123   0                  -19   111   -21    25  -243    22 u=008 imp:n=1
01124   0                  -19   111   -21    18   -24    23 u=008 imp:n=1
01125   0                 -110   107   -21    18   -24    23 u=008 imp:n=1
01126   0                  -19   111   -21    48   -37    24 u=008 imp:n=1
01127   0                 -110    17   -21    48   -37    24 u=008 imp:n=1
01128   0                  -19   111   -21    18   -23    49 u=008 imp:n=1
01129   0                 -110   107   -21    18   -23    49 u=008 imp:n=1
01130   0                 -106   258   -21    48   -24    49 u=008 imp:n=1
01131   0                 -118   258   -48    18  -243   242 u=008 imp:n=1
01132   0                  -19   111   -48    26  -243    22 u=008 imp:n=1
01133   0                 -257   244   -21    48   -24    49 u=008 imp:n=1
01134   0                 -117    17   -21    48   -24    49 u=008 imp:n=1
01135   0                  -19    75   -48    18  -265   250 u=008 imp:n=1
01136   0                  -19    17   -14    18   -16   265 u=008 imp:n=1
01137   0                  -19   111   -26    18  -243    22 u=008 imp:n=1
01138   0                  -19    17   -14    48  -265    37 u=008 imp:n=1
01139   0                  -19   201   -48    18  -250   241 u=008 imp:n=1
01140   0                 -117    17   -48    18  -250   241 u=008 imp:n=1
01141   0                 -117    17   -21    48  -242     6 u=008 imp:n=1
01142   0                 -257   244   -21    48  -242     6 u=008 imp:n=1
01143   0                 -106   258   -21    48  -242     6 u=008 imp:n=1
01144   0                 -118   258   -48    18  -242     6 u=008 imp:n=1
01145   3  0.8540120E-01    -2     1    -4     3   -81    11 u=008  imp:n=1
01146   3  0.8540120E-01    -2     1    -8     7   -81    11 u=008  imp:n=1
01147   3  0.8540120E-01    -9     1    -7     4   -81    11 u=008  imp:n=1
01148   3  0.8540120E-01    -2    10    -7     4   -81    11 u=008  imp:n=1
01149  34  0.1035093E+00   -82     9   -83     4   -85    84 u=008  imp:n=1
01150   0                  -10     9    -7     4   -84    11 u=008 imp:n=1
01151   0                  -10     9    -7     4   -81    85 u=008 imp:n=1
01152   0                  -10     9    -7    83   -85    84 u=008 imp:n=1
01153   0                  -10    82   -83     4   -85    84 u=008 imp:n=1
01154   1  0.3030146E-01    -2     1    -4     3    -6     5 u=009  imp:n=1
01155   1  0.3030146E-01    -2     1    -8     7    -6     5 u=009  imp:n=1
01156   2  0.7570860E-01    -9     1    -7     4    -6     5 u=009  imp:n=1
01157   2  0.7570860E-01    -2    10    -7     4    -6     5 u=009  imp:n=1
01158   3  0.8540120E-01    -2     1    -4     3   -11     6 u=009  imp:n=1
01159   3  0.8540120E-01    -2     1    -8     7   -11     6 u=009  imp:n=1
01160   3  0.8540120E-01    -9     1    -7     4   -11     6 u=009  imp:n=1
01161   3  0.8540120E-01    -2    10    -7     4   -11     6 u=009  imp:n=1
01162   4  0.7332760E-01   -13    12   -14     4   -15     5 u=009  imp:n=1
01163   5  0.3966184E-01   -13    12   -14     4   -11    16 u=009  imp:n=1
01164   6  0.3747366E-01   -17    12   -14    18   -16    15 u=009  imp:n=1
01165   6  0.3747366E-01   -13    19   -14    18   -16    15 u=009  imp:n=1
01166   6  0.3747366E-01   -13    12   -18     4   -16    15 u=009  imp:n=1
01167  53  0.8228339E-01  -263   202   -48    18  -248    70 u=009  imp:n=1
01168  54  0.2192774E-01  -263   202   -48    18  -250   249 u=009  imp:n=1
01169  55  0.7070584E-01  -263   202   -48   251  -249   248 u=009  imp:n=1
01170  55  0.7070584E-01  -263   202  -252    18  -249   248 u=009  imp:n=1
01171  56  0.6618348E-01  -266   202  -251   252  -249   248 u=009  imp:n=1
01172  56  0.6618348E-01  -263   267  -251   252  -249   248 u=009  imp:n=1
01173   0                 -267   266  -251   252  -249   248 u=009 imp:n=1
01174  53  0.8228339E-01  -117   263   -48    18  -248    70 u=009  imp:n=1
01175  54  0.2192774E-01  -117   263   -48    18  -250   249 u=009  imp:n=1
01176  55  0.7070584E-01  -117   263   -48   251  -249   248 u=009  imp:n=1
01177  55  0.7070584E-01  -117   263  -252    18  -249   248 u=009  imp:n=1
01178  56  0.6618348E-01  -268   263  -251   252  -249   248 u=009  imp:n=1
01179  56  0.6618348E-01  -117   269  -251   252  -249   248 u=009  imp:n=1
01180   0                 -269   268  -251   252  -249   248 u=009 imp:n=1
01181  11  0.7961518E-01  -270   202   -21    18   -22    15 u=009  imp:n=1
01182  11  0.7961518E-01  -270   202   -21    18   -32    31 u=009  imp:n=1
01183  12  0.7714468E-01  -270   202   -21    25   -31    22 u=009  imp:n=1
01184  12  0.7714468E-01  -270   202   -26    18   -31    22 u=009  imp:n=1
01185  13  0.6712964E-01  -271   202   -25    26   -31    22 u=009  imp:n=1
01186  13  0.6712964E-01  -270   272   -25    26   -31    22 u=009  imp:n=1
01187  14  0.4579853E-01  -272   271   -25    26   -31    22 u=009  imp:n=1
01188  11  0.7961518E-01  -270   202   -21    18   -35    32 u=009  imp:n=1
01189  11  0.7961518E-01  -270   202   -21    18   -37    36 u=009  imp:n=1
01190  12  0.7714468E-01  -270   202   -21    25   -36    35 u=009  imp:n=1
01191  12  0.7714468E-01  -270   202   -26    18   -36    35 u=009  imp:n=1
01192  13  0.6712964E-01  -271   202   -25    26   -36    35 u=009  imp:n=1
01193  13  0.6712964E-01  -270   272   -25    26   -36    35 u=009  imp:n=1
01194  14  0.4579853E-01  -272   271   -25    26   -36    35 u=009  imp:n=1
01195  15  0.8003452E-01  -274   273   -21    18   -22    15 u=009  imp:n=1
01196  15  0.8003452E-01  -274   273   -21    18   -24    23 u=009  imp:n=1
01197  16  0.7744373E-01  -274   273   -21    25   -23    22 u=009  imp:n=1
01198  16  0.7744373E-01  -274   273   -26    18   -23    22 u=009  imp:n=1
```

```
01199  17  0.6733980E-01  -275   273   -25    26   -23    22 u=009  imp:n=1
01200  17  0.6733980E-01  -274   276   -25    26   -23    22 u=009  imp:n=1
01201  18  0.4487970E-01  -276   275   -25    26   -23    22 u=009  imp:n=1
01202  23  0.1232400E+00  -278   277   -48    18   -49    15 u=009  imp:n=1
01203  24  0.1232187E+00  -278   277   -48    18   -50    49 u=009  imp:n=1
01204  15  0.8003452E-01  -280   279   -21    18   -22    15 u=009  imp:n=1
01205  15  0.8003452E-01  -280   279   -21    18   -24    23 u=009  imp:n=1
01206  16  0.7744373E-01  -280   279   -21    25   -23    22 u=009  imp:n=1
01207  16  0.7744373E-01  -280   279   -26    18   -23    22 u=009  imp:n=1
01208  17  0.6733980E-01  -281   279   -25    26   -23    22 u=009  imp:n=1
01209  17  0.6733980E-01  -280   282   -25    26   -23    22 u=009  imp:n=1
01210  18  0.4487970E-01  -282   281   -25    26   -23    22 u=009  imp:n=1
01211   7  0.8235419E-01  -284   283   -21    18   -22    15 u=009  imp:n=1
01212   7  0.8235419E-01  -284   283   -21    18   -24    23 u=009  imp:n=1
01213   8  0.7986135E-01  -284   283   -21    25   -23    22 u=009  imp:n=1
01214   8  0.7986135E-01  -284   283   -26    18   -23    22 u=009  imp:n=1
01215   9  0.6943934E-01  -285   283   -25    26   -23    22 u=009  imp:n=1
01216   9  0.6943934E-01  -284   286   -25    26   -23    22 u=009  imp:n=1
01217  10  0.4603587E-01  -286   285   -25    26   -23    22 u=009  imp:n=1
01218  50  0.1387665E+00  -201   117   -48    18  -241    49 u=009  imp:n=1
01219  51  0.1119518E+00  -184   183   -48    18  -242    15 u=009  imp:n=1
01220  52  0.1112539E+00  -184   183   -48    18  -243   242 u=009  imp:n=1
01221  29  0.1183522E+00  -287   202   -48    18   -70    37 u=009  imp:n=1
01222  30  0.5464445E-01  -273   270   -48    18   -49    15 u=009  imp:n=1
01223  26  0.7164290E-01  -277   287   -48    18   -68    15 u=009  imp:n=1
01224  26  0.7164290E-01  -279   278   -48    18   -68    15 u=009  imp:n=1
01225  29  0.1183522E+00  -288   279   -48    18   -67    24 u=009  imp:n=1
01226  30  0.5464445E-01  -283   280   -48    18   -49    15 u=009  imp:n=1
01227  58  0.1026764E+00   -47   117   -48    18   -49    15 u=009  imp:n=1
01228  58  0.1026764E+00  -289    47   -48    18   -49    15 u=009  imp:n=1
01229  58  0.1026764E+00  -183   289   -48    18   -49    15 u=009  imp:n=1
01230  58  0.1026764E+00  -247   183   -48    18   -49   243 u=009  imp:n=1
01231  58  0.1026764E+00  -184   247   -48    18   -49   243 u=009  imp:n=1
01232  58  0.1026764E+00  -290   184   -48    18   -49    15 u=009  imp:n=1
01233  58  0.1026764E+00  -291   290   -48    18   -49    15 u=009  imp:n=1
01234  58  0.1026764E+00  -201   291   -48    18   -49    15 u=009  imp:n=1
01235  31  0.2714513E-01   -75    17   -48    18  -265   250 u=009  imp:n=1
01236   0                  -12     9   -14     4   -11     6 u=009 imp:n=1
01237   0                  -10    13   -14     4   -11     6 u=009 imp:n=1
01238   0                  -10     9    -7    14   -11     5 u=009 imp:n=1
01239   0                 -202    17   -21    18   -35     6 u=009 imp:n=1
01240   0                 -273   270   -21    48   -31     6 u=009 imp:n=1
01241   0                 -279   274   -21    48   -31     6 u=009 imp:n=1
01242   0                 -283   280   -21    48   -31     6 u=009 imp:n=1
01243   0                  -19   284   -21    48   -31     6 u=009 imp:n=1
01244   0                 -287   274   -48    18   -31     6 u=009 imp:n=1
01245   0                 -117   284   -48    26   -24    22 u=009 imp:n=1
01246   0                  -19   201   -48    26   -36    22 u=009 imp:n=1
01247   0                  -19   201   -48    18   -22    15 u=009 imp:n=1
01248   0                 -117   284   -48    18   -22    15 u=009 imp:n=1
01249   0                 -287   274   -48    18    -6    15 u=009 imp:n=1
01250   0                  -19   284   -21    48    -6    15 u=009 imp:n=1
01251   0                 -117   284   -26    18   -24    22 u=009 imp:n=1
01252   0                  -19   201   -26    18   -36    22 u=009 imp:n=1
01253   0                 -283   280   -21    48    -6    15 u=009 imp:n=1
01254   0                 -279   274   -21    48    -6    15 u=009 imp:n=1
01255   0                  -19    17   -14    21   -37    15 u=009 imp:n=1
01256   0                 -273   270   -21    48    -6    15 u=009 imp:n=1
01257   0                 -202    17   -21    18    -6    15 u=009 imp:n=1
01258   0                  -10    13   -14     4    -6     5 u=009 imp:n=1
01259   0                  -12     9   -14     4    -6     5 u=009 imp:n=1
01260   0                 -202    17   -21    18   -37    35 u=009 imp:n=1
01261   0                 -273   270   -25    26   -24    49 u=009 imp:n=1
01262   0                 -273   270   -25    48   -49    31 u=009 imp:n=1
01263   0                 -279   274   -25    48   -24    31 u=009 imp:n=1
01264   0                 -283   280   -25    18   -23    49 u=009 imp:n=1
01265   0                  -19   284   -25    48   -24    31 u=009 imp:n=1
01266   0                 -287   274   -48    26   -24    31 u=009 imp:n=1
01267   0                  -19    75   -48    18  -265   250 u=009 imp:n=1
01268   0                  -19    17   -14    18   -16   265 u=009 imp:n=1
01269   0                  -19   201   -48    18  -241   248 u=009 imp:n=1
01270   0                  -19   117   -48    18  -250   241 u=009 imp:n=1
01271   0                 -283   280   -25    48   -49    31 u=009 imp:n=1
01272   0                 -202    17   -48    18  -250   248 u=009 imp:n=1
01273   0                 -279   278   -48    18   -50    68 u=009 imp:n=1
01274   0                 -277   287   -48    18   -50    68 u=009 imp:n=1
```

```
01275   0                  -19   201   -48    18  -248    36 u=009 imp:n=1
01276   0                 -279   287   -48    18   -67    50 u=009 imp:n=1
01277   0                 -117   287   -48    18   -70    67 u=009 imp:n=1
01278   0                  -19   270   -21    48   -37    24 u=009 imp:n=1
01279   0                 -287   270   -48    18   -37    24 u=009 imp:n=1
01280   0                 -117   288   -48    18   -67    24 u=009 imp:n=1
01281   0                 -202    17   -48    18  -248    37 u=009 imp:n=1
01282   0                  -19    17   -14    48  -265    37 u=009 imp:n=1
01283   0                  -19   284   -21    25   -24    31 u=009 imp:n=1
01284   0                 -283   280   -21    18   -24    23 u=009 imp:n=1
01285   0                 -283   280   -21    25   -23    31 u=009 imp:n=1
01286   0                 -279   274   -21    25   -24    31 u=009 imp:n=1
01287   0                 -273   270   -21    25   -24    31 u=009 imp:n=1
01288   0                 -287   274   -26    18   -24    31 u=009 imp:n=1
01289   0                 -273   270   -26    18   -24    49 u=009 imp:n=1
01290   3  0.8540120E-01    -2     1    -4     3   -81    11 u=009  imp:n=1
01291   3  0.8540120E-01    -2     1    -8     7   -81    11 u=009  imp:n=1
01292   3  0.8540120E-01    -9     1    -7     4   -81    11 u=009  imp:n=1
01293   3  0.8540120E-01    -2    10    -7     4   -81    11 u=009  imp:n=1
01294  34  0.1035093E+00   -82     9   -83     4   -85    84 u=009  imp:n=1
01295   0                  -10     9    -7     4   -84    11 u=009 imp:n=1
01296   0                  -10     9    -7     4   -81    85 u=009 imp:n=1
01297   0                  -10     9    -7    83   -85    84 u=009 imp:n=1
01298   0                  -10    82   -83     4   -85    84 u=009 imp:n=1
01299   1  0.3030146E-01    -2     1    -4     3    -6     5 u=010  imp:n=1
01300   1  0.3030146E-01    -2     1    -8     7    -6     5 u=010  imp:n=1
01301   2  0.7570860E-01    -9     1    -7     4    -6     5 u=010  imp:n=1
01302   2  0.7570860E-01    -2    10    -7     4    -6     5 u=010  imp:n=1
01303   3  0.8540120E-01    -2     1    -4     3   -11     6 u=010  imp:n=1
01304   3  0.8540120E-01    -2     1    -8     7   -11     6 u=010  imp:n=1
01305   3  0.8540120E-01    -9     1    -7     4   -11     6 u=010  imp:n=1
01306   3  0.8540120E-01    -2    10    -7     4   -11     6 u=010  imp:n=1
01307   4  0.7332760E-01   -13    12   -14     4   -15     5 u=010  imp:n=1
01308   5  0.3966184E-01   -13    12   -14     4   -11    16 u=010  imp:n=1
01309   6  0.3747366E-01   -17    12   -14    18   -16    15 u=010  imp:n=1
01310   6  0.3747366E-01   -13    19   -14    18   -16    15 u=010  imp:n=1
01311   6  0.3747366E-01   -13    12   -18     4   -16    15 u=010  imp:n=1
01312  53  0.8228339E-01  -263   202   -48    18  -248    70 u=010  imp:n=1
01313  54  0.2192774E-01  -263   202   -48    18  -250   249 u=010  imp:n=1
01314  55  0.7070584E-01  -263   202   -48   251  -249   248 u=010  imp:n=1
01315  55  0.7070584E-01  -263   202  -252    18  -249   248 u=010  imp:n=1
01316  56  0.6618348E-01  -266   202  -251   252  -249   248 u=010  imp:n=1
01317  56  0.6618348E-01  -263   267  -251   252  -249   248 u=010  imp:n=1
01318   0                 -267   266  -251   252  -249   248 u=010 imp:n=1
01319   7  0.8235419E-01  -270   202   -21    18   -22    15 u=010  imp:n=1
01320   7  0.8235419E-01  -270   202   -21    18   -24    23 u=010  imp:n=1
01321   8  0.7986135E-01  -270   202   -21    25   -23    22 u=010  imp:n=1
01322   8  0.7986135E-01  -270   202   -26    18   -23    22 u=010  imp:n=1
01323   9  0.6943934E-01  -271   202   -25    26   -23    22 u=010  imp:n=1
01324   9  0.6943934E-01  -270   272   -25    26   -23    22 u=010  imp:n=1
01325  10  0.4603587E-01  -272   271   -25    26   -23    22 u=010  imp:n=1
01326  11  0.7961518E-01  -293   292   -21    18   -22    15 u=010  imp:n=1
01327  11  0.7961518E-01  -293   292   -21    18   -32    31 u=010  imp:n=1
01328  12  0.7714468E-01  -293   292   -21    25   -31    22 u=010  imp:n=1
01329  12  0.7714468E-01  -293   292   -26    18   -31    22 u=010  imp:n=1
01330  13  0.6712964E-01  -294   292   -25    26   -31    22 u=010  imp:n=1
01331  13  0.6712964E-01  -293   295   -25    26   -31    22 u=010  imp:n=1
01332  14  0.4579853E-01  -295   294   -25    26   -31    22 u=010  imp:n=1
01333  11  0.7961518E-01  -293   292   -21    18   -35    32 u=010  imp:n=1
01334  11  0.7961518E-01  -293   292   -21    18   -37    36 u=010  imp:n=1
01335  12  0.7714468E-01  -293   292   -21    25   -36    35 u=010  imp:n=1
01336  12  0.7714468E-01  -293   292   -26    18   -36    35 u=010  imp:n=1
01337  13  0.6712964E-01  -294   292   -25    26   -36    35 u=010  imp:n=1
01338  13  0.6712964E-01  -293   295   -25    26   -36    35 u=010  imp:n=1
01339  14  0.4579853E-01  -295   294   -25    26   -36    35 u=010  imp:n=1
01340   7  0.8235419E-01  -297   296   -21    18   -22    15 u=010  imp:n=1
01341   7  0.8235419E-01  -297   296   -21    18   -24    23 u=010  imp:n=1
01342   8  0.7986135E-01  -297   296   -21    25   -23    22 u=010  imp:n=1
01343   8  0.7986135E-01  -297   296   -26    18   -23    22 u=010  imp:n=1
01344   9  0.6943934E-01  -298   296   -25    26   -23    22 u=010  imp:n=1
01345   9  0.6943934E-01  -297   299   -25    26   -23    22 u=010  imp:n=1
01346  10  0.4603587E-01  -299   298   -25    26   -23    22 u=010  imp:n=1
01347  50  0.1387665E+00  -247   263   -48    18  -241    49 u=010  imp:n=1
01348  51  0.1119518E+00   -47    46   -48    18  -242    15 u=010  imp:n=1
01349  52  0.1112539E+00   -47    46   -48    18  -243   242 u=010  imp:n=1
01350   7  0.8235419E-01  -300   247   -21    18   -22    15 u=010  imp:n=1
```

```
01351   7  0.8235419E-01  -300   247   -21    18   -24    23 u=010  imp:n=1
01352   8  0.7986135E-01  -300   247   -21    25   -23    22 u=010  imp:n=1
01353   8  0.7986135E-01  -300   247   -26    18   -23    22 u=010  imp:n=1
01354   9  0.6943934E-01  -301   247   -25    26   -23    22 u=010  imp:n=1
01355   9  0.6943934E-01  -300   302   -25    26   -23    22 u=010  imp:n=1
01356  10  0.4603587E-01  -302   301   -25    26   -23    22 u=010  imp:n=1
01357  53  0.8228339E-01  -201   247   -48    18  -248    70 u=010  imp:n=1
01358  54  0.2192774E-01  -201   247   -48    18  -250   249 u=010  imp:n=1
01359  55  0.7070584E-01  -201   247   -48   251  -249   248 u=010  imp:n=1
01360  55  0.7070584E-01  -201   247  -252    18  -249   248 u=010  imp:n=1
01361  56  0.6618348E-01  -255   247  -251   252  -249   248 u=010  imp:n=1
01362  56  0.6618348E-01  -201   256  -251   252  -249   248 u=010  imp:n=1
01363   0                 -256   255  -251   252  -249   248 u=010 imp:n=1
01364  11  0.7961518E-01  -304   303   -21    18   -22    15 u=010  imp:n=1
01365  11  0.7961518E-01  -304   303   -21    18   -32    31 u=010  imp:n=1
01366  12  0.7714468E-01  -304   303   -21    25   -31    22 u=010  imp:n=1
01367  12  0.7714468E-01  -304   303   -26    18   -31    22 u=010  imp:n=1
01368  13  0.6712964E-01  -305   303   -25    26   -31    22 u=010  imp:n=1
01369  13  0.6712964E-01  -304   306   -25    26   -31    22 u=010  imp:n=1
01370  14  0.4579853E-01  -306   305   -25    26   -31    22 u=010  imp:n=1
01371  11  0.7961518E-01  -304   303   -21    18   -35    32 u=010  imp:n=1
01372  11  0.7961518E-01  -304   303   -21    18   -37    36 u=010  imp:n=1
01373  12  0.7714468E-01  -304   303   -21    25   -36    35 u=010  imp:n=1
01374  12  0.7714468E-01  -304   303   -26    18   -36    35 u=010  imp:n=1
01375  13  0.6712964E-01  -305   303   -25    26   -36    35 u=010  imp:n=1
01376  13  0.6712964E-01  -304   306   -25    26   -36    35 u=010  imp:n=1
01377  14  0.4579853E-01  -306   305   -25    26   -36    35 u=010  imp:n=1
01378   7  0.8235419E-01  -307   164   -21    18   -22    15 u=010  imp:n=1
01379   7  0.8235419E-01  -307   164   -21    18   -24    23 u=010  imp:n=1
01380   8  0.7986135E-01  -307   164   -21    25   -23    22 u=010  imp:n=1
01381   8  0.7986135E-01  -307   164   -26    18   -23    22 u=010  imp:n=1
01382   9  0.6943934E-01  -308   164   -25    26   -23    22 u=010  imp:n=1
01383   9  0.6943934E-01  -307   309   -25    26   -23    22 u=010  imp:n=1
01384  10  0.4603587E-01  -309   308   -25    26   -23    22 u=010  imp:n=1
01385  25  0.1201037E+00  -310   202   -48    18   -67    24 u=010  imp:n=1
01386  26  0.7164290E-01  -292   270   -48    18   -68    15 u=010  imp:n=1
01387  29  0.1183522E+00  -311   292   -48    18   -70    37 u=010  imp:n=1
01388  28  0.1187656E+00  -296   293   -48    18   -49    15 u=010  imp:n=1
01389  58  0.1026764E+00  -147   263   -48    18   -49    15 u=010  imp:n=1
01390  58  0.1026764E+00  -264   147   -48    18   -49    15 u=010  imp:n=1
01391  58  0.1026764E+00   -46   264   -48    18   -49    15 u=010  imp:n=1
01392  58  0.1026764E+00  -117    46   -48    18   -49   243 u=010  imp:n=1
01393  58  0.1026764E+00   -47   117   -48    18   -49   243 u=010  imp:n=1
01394  58  0.1026764E+00  -289    47   -48    18   -49    15 u=010  imp:n=1
01395  58  0.1026764E+00  -183   289   -48    18   -49    15 u=010  imp:n=1
01396  58  0.1026764E+00  -247   183   -48    18   -49    15 u=010  imp:n=1
01397  29  0.1183522E+00  -312   247   -48    18   -70    37 u=010  imp:n=1
01398  28  0.1187656E+00  -303   300   -48    18   -49    15 u=010  imp:n=1
01399  26  0.7164290E-01  -164   312   -48    18   -68    15 u=010  imp:n=1
01400  25  0.1201037E+00  -313   164   -48    18   -67    24 u=010  imp:n=1
01401  31  0.2714513E-01   -75    17   -48    18  -265   250 u=010  imp:n=1
01402   0                  -12     9   -14     4   -11     6 u=010 imp:n=1
01403   0                  -10    13   -14     4   -11     6 u=010 imp:n=1
01404   0                  -10     9    -7    14   -11     5 u=010 imp:n=1
01405   0                 -202    17   -21    18   -24     6 u=010 imp:n=1
01406   0                 -292   270   -25    48   -24    22 u=010 imp:n=1
01407   0                 -296   293   -25    48   -49    22 u=010 imp:n=1
01408   0                 -247   297   -25    48   -24    22 u=010 imp:n=1
01409   0                 -303   300   -25    48   -24    22 u=010 imp:n=1
01410   0                 -164   304   -25    48   -24    22 u=010 imp:n=1
01411   0                  -19   307   -25    18   -31   242 u=010 imp:n=1
01412   0                 -263   297   -48    26   -24    22 u=010 imp:n=1
01413   0                 -312   304   -48    26   -36    22 u=010 imp:n=1
01414   0                 -312   304   -48    18   -22    15 u=010 imp:n=1
01415   0                 -263   297   -48    18   -22    15 u=010 imp:n=1
01416   0                  -19   307   -21    18   -22    15 u=010 imp:n=1
01417   0                 -164   304   -21    48   -22    15 u=010 imp:n=1
01418   0                  -19   307   -25    18  -242     6 u=010 imp:n=1
01419   0                 -303   300   -21    48   -22    15 u=010 imp:n=1
01420   0                 -247   297   -21    48   -22    15 u=010 imp:n=1
01421   0                 -296   293   -21    48   -22    15 u=010 imp:n=1
01422   0                 -292   270   -21    48   -22    15 u=010 imp:n=1
01423   0                 -296   293   -25    18   -23    49 u=010 imp:n=1
01424   0                  -19   307   -25    18    -6    22 u=010 imp:n=1
01425   0                 -202    17   -21    18    -6    15 u=010 imp:n=1
01426   0                  -10    13   -14     4    -6     5 u=010 imp:n=1
```

```
01427   0                  -12     9   -14     4    -6     5 u=010 imp:n=1
01428   0                  -19   201   -48    18  -248    70 u=010 imp:n=1
01429   0                  -19   307   -25    18   -49   243 u=010 imp:n=1
01430   0                  -19   201   -48    18  -250   249 u=010 imp:n=1
01431   0                  -19    75   -48    18  -265   250 u=010 imp:n=1
01432   0                  -19    17   -14    18   -16   265 u=010 imp:n=1
01433   0                  -19   307   -25    18  -243    35 u=010 imp:n=1
01434   0                  -19   201   -48   251  -249   248 u=010 imp:n=1
01435   0                  -19   201  -252    18  -249   248 u=010 imp:n=1
01436   0                  -19   201  -251   252  -249   248 u=010 imp:n=1
01437   0                 -247   263   -48    18  -250   241 u=010 imp:n=1
01438   0                 -202    17   -48    18  -250    70 u=010 imp:n=1
01439   0                 -303   300   -48    18   -24    23 u=010 imp:n=1
01440   0                  -19   307   -25    18   -23    49 u=010 imp:n=1
01441   0                  -19   307   -25    18   -24    23 u=010 imp:n=1
01442   0                 -303   300   -48    18   -23    49 u=010 imp:n=1
01443   0                 -296   293   -25    18   -24    23 u=010 imp:n=1
01444   0                 -312   304   -48    18   -37    36 u=010 imp:n=1
01445   0                 -164   312   -48    18   -67    68 u=010 imp:n=1
01446   0                  -19   312   -48    18   -70    67 u=010 imp:n=1
01447   0                 -292   310   -48    18   -67    68 u=010 imp:n=1
01448   0                 -263   311   -48    18   -70    37 u=010 imp:n=1
01449   0                 -292    17   -48    18   -70    67 u=010 imp:n=1
01450   0                  -19   307   -21    18   -35    32 u=010 imp:n=1
01451   0                  -19    17   -14    48  -265    37 u=010 imp:n=1
01452   0                  -19   313   -48    18   -67    24 u=010 imp:n=1
01453   0                 -303   247   -48    18   -37    24 u=010 imp:n=1
01454   0                 -263   293   -48    18   -37    24 u=010 imp:n=1
01455   0                  -19   304   -21    48   -37    24 u=010 imp:n=1
01456   0                 -303   293   -21    48   -37    24 u=010 imp:n=1
01457   0                 -270   310   -48    18   -68    24 u=010 imp:n=1
01458   0                 -202    17   -48    18   -67    24 u=010 imp:n=1
01459   0                  -19   307   -21    18   -32    31 u=010 imp:n=1
01460   0                 -292    17   -21    48   -37    24 u=010 imp:n=1
01461   0                  -19   307   -21    25   -24    35 u=010 imp:n=1
01462   0                  -19   307   -21    25   -31    22 u=010 imp:n=1
01463   0                 -164   304   -21    25   -24    22 u=010 imp:n=1
01464   0                 -263   297   -26    18   -24    22 u=010 imp:n=1
01465   0                 -312   304   -26    18   -36    22 u=010 imp:n=1
01466   0                 -303   300   -21    25   -24    22 u=010 imp:n=1
01467   0                 -247   297   -21    25   -24    22 u=010 imp:n=1
01468   0                 -296   293   -21    25   -24    22 u=010 imp:n=1
01469   0                 -292   270   -21    25   -24    22 u=010 imp:n=1
01470   0                  -19    17   -14    21   -37    15 u=010 imp:n=1
01471   3  0.8540120E-01    -2     1    -4     3   -81    11 u=010  imp:n=1
01472   3  0.8540120E-01    -2     1    -8     7   -81    11 u=010  imp:n=1
01473   3  0.8540120E-01    -9     1    -7     4   -81    11 u=010  imp:n=1
01474   3  0.8540120E-01    -2    10    -7     4   -81    11 u=010  imp:n=1
01475  34  0.1035093E+00   -82     9   -83     4   -85    84 u=010  imp:n=1
01476   0                  -10     9    -7     4   -84    11 u=010 imp:n=1
01477   0                  -10     9    -7     4   -81    85 u=010 imp:n=1
01478   0                  -10     9    -7    83   -85    84 u=010 imp:n=1
01479   0                  -10    82   -83     4   -85    84 u=010 imp:n=1
01480   1  0.3030146E-01    -2     1    -4     3    -6     5 u=011  imp:n=1
01481   1  0.3030146E-01    -2     1    -8     7    -6     5 u=011  imp:n=1
01482   2  0.7570860E-01    -9     1    -7     4    -6     5 u=011  imp:n=1
01483   2  0.7570860E-01    -2    10    -7     4    -6     5 u=011  imp:n=1
01484   3  0.8540120E-01    -2     1    -4     3   -11     6 u=011  imp:n=1
01485   3  0.8540120E-01    -2     1    -8     7   -11     6 u=011  imp:n=1
01486   3  0.8540120E-01    -9     1    -7     4   -11     6 u=011  imp:n=1
01487   3  0.8540120E-01    -2    10    -7     4   -11     6 u=011  imp:n=1
01488   4  0.7332760E-01   -13    12   -14     4   -15     5 u=011  imp:n=1
01489   5  0.3966184E-01   -13    12   -14     4   -11    16 u=011  imp:n=1
01490   6  0.3747366E-01   -17    12   -14    18   -16    15 u=011  imp:n=1
01491   6  0.3747366E-01   -13    19   -14    18   -16    15 u=011  imp:n=1
01492   6  0.3747366E-01   -13    12   -18     4   -16    15 u=011  imp:n=1
01493   7  0.8235419E-01  -315   314   -21    18   -22    15 u=011  imp:n=1
01494   7  0.8235419E-01  -315   314   -21    18   -24    23 u=011  imp:n=1
01495   8  0.7986135E-01  -315   314   -21    25   -23    22 u=011  imp:n=1
01496   8  0.7986135E-01  -315   314   -26    18   -23    22 u=011  imp:n=1
01497   9  0.6943934E-01  -316   314   -25    26   -23    22 u=011  imp:n=1
01498   9  0.6943934E-01  -315   317   -25    26   -23    22 u=011  imp:n=1
01499  10  0.4603587E-01  -317   316   -25    26   -23    22 u=011  imp:n=1
01500  11  0.7961518E-01  -319   318   -21    18   -22    15 u=011  imp:n=1
01501  11  0.7961518E-01  -319   318   -21    18   -32    31 u=011  imp:n=1
01502  12  0.7714468E-01  -319   318   -21    25   -31    22 u=011  imp:n=1
```

```
01503  12  0.7714468E-01  -319   318   -26    18   -31    22 u=011  imp:n=1
01504  13  0.6712964E-01  -320   318   -25    26   -31    22 u=011  imp:n=1
01505  13  0.6712964E-01  -319   321   -25    26   -31    22 u=011  imp:n=1
01506  14  0.4579853E-01  -321   320   -25    26   -31    22 u=011  imp:n=1
01507  11  0.7961518E-01  -319   318   -21    18   -35    32 u=011  imp:n=1
01508  11  0.7961518E-01  -319   318   -21    18   -37    36 u=011  imp:n=1
01509  12  0.7714468E-01  -319   318   -21    25   -36    35 u=011  imp:n=1
01510  12  0.7714468E-01  -319   318   -26    18   -36    35 u=011  imp:n=1
01511  13  0.6712964E-01  -320   318   -25    26   -36    35 u=011  imp:n=1
01512  13  0.6712964E-01  -319   321   -25    26   -36    35 u=011  imp:n=1
01513  14  0.4579853E-01  -321   320   -25    26   -36    35 u=011  imp:n=1
01514   7  0.8235419E-01  -323   322   -21    18   -22    15 u=011  imp:n=1
01515   7  0.8235419E-01  -323   322   -21    18   -24    23 u=011  imp:n=1
01516   8  0.7986135E-01  -323   322   -21    25   -23    22 u=011  imp:n=1
01517   8  0.7986135E-01  -323   322   -26    18   -23    22 u=011  imp:n=1
01518   9  0.6943934E-01  -324   322   -25    26   -23    22 u=011  imp:n=1
01519   9  0.6943934E-01  -323   325   -25    26   -23    22 u=011  imp:n=1
01520  10  0.4603587E-01  -325   324   -25    26   -23    22 u=011  imp:n=1
01521  50  0.1387665E+00  -327   326   -48    18   -49    15 u=011  imp:n=1
01522  59  0.1256220E+00  -327   326   -48    18   -50    49 u=011  imp:n=1
01523  11  0.7961518E-01  -329   328   -21    18   -22    15 u=011  imp:n=1
01524  11  0.7961518E-01  -329   328   -21    18   -32    31 u=011  imp:n=1
01525  12  0.7714468E-01  -329   328   -21    25   -31    22 u=011  imp:n=1
01526  12  0.7714468E-01  -329   328   -26    18   -31    22 u=011  imp:n=1
01527  13  0.6712964E-01  -330   328   -25    26   -31    22 u=011  imp:n=1
01528  13  0.6712964E-01  -329   331   -25    26   -31    22 u=011  imp:n=1
01529  14  0.4579853E-01  -331   330   -25    26   -31    22 u=011  imp:n=1
01530  11  0.7961518E-01  -329   328   -21    18   -35    32 u=011  imp:n=1
01531  11  0.7961518E-01  -329   328   -21    18   -37    36 u=011  imp:n=1
01532  12  0.7714468E-01  -329   328   -21    25   -36    35 u=011  imp:n=1
01533  12  0.7714468E-01  -329   328   -26    18   -36    35 u=011  imp:n=1
01534  13  0.6712964E-01  -330   328   -25    26   -36    35 u=011  imp:n=1
01535  13  0.6712964E-01  -329   331   -25    26   -36    35 u=011  imp:n=1
01536  14  0.4579853E-01  -331   330   -25    26   -36    35 u=011  imp:n=1
01537   7  0.8235419E-01  -333   332   -21    18   -22    15 u=011  imp:n=1
01538   7  0.8235419E-01  -333   332   -21    18   -24    23 u=011  imp:n=1
01539   8  0.7986135E-01  -333   332   -21    25   -23    22 u=011  imp:n=1
01540   8  0.7986135E-01  -333   332   -26    18   -23    22 u=011  imp:n=1
01541   9  0.6943934E-01  -334   332   -25    26   -23    22 u=011  imp:n=1
01542   9  0.6943934E-01  -333   335   -25    26   -23    22 u=011  imp:n=1
01543  10  0.4603587E-01  -335   334   -25    26   -23    22 u=011  imp:n=1
01544  25  0.1201037E+00  -336   314   -48    18   -70    37 u=011  imp:n=1
01545  26  0.7164290E-01  -318   315   -48    18   -68    15 u=011  imp:n=1
01546  29  0.1183522E+00  -337   318   -48    18   -70    37 u=011  imp:n=1
01547  28  0.1187656E+00  -322   319   -48    18   -49    15 u=011  imp:n=1
01548  28  0.1187656E+00  -328   327   -48    18   -49    15 u=011  imp:n=1
01549  29  0.1183522E+00  -338   327   -48    18   -70    37 u=011  imp:n=1
01550  26  0.7164290E-01  -332   338   -48    18   -68    15 u=011  imp:n=1
01551  25  0.1201037E+00  -339   332   -48    18   -70    37 u=011  imp:n=1
01552  31  0.2714513E-01   -75    17   -48    18   -76    70 u=011  imp:n=1
01553  32  0.8823003E-01   -75    17   -48    18   -77    76 u=011  imp:n=1
01554  33  0.8829426E-01   -78    17   -48    18   -79    77 u=011  imp:n=1
01555  33  0.8829426E-01   -75    80   -48    18   -79    77 u=011  imp:n=1
01556   0                  -12     9   -14     4   -11     6 u=011 imp:n=1
01557   0                  -10    13   -14     4   -11     6 u=011 imp:n=1
01558   0                  -10     9    -7    14   -11     5 u=011 imp:n=1
01559   0                 -314    17   -21    18   -24     6 u=011 imp:n=1
01560   0                 -318   315   -25    48   -24    22 u=011 imp:n=1
01561   0                 -322   319   -25    48   -49    22 u=011 imp:n=1
01562   0                 -328   323   -25    48   -24    22 u=011 imp:n=1
01563   0                 -332   329   -25    48   -24    22 u=011 imp:n=1
01564   0                  -19   333   -21    18   -31     6 u=011 imp:n=1
01565   0                 -326   323   -48    26   -24    22 u=011 imp:n=1
01566   0                 -338   329   -48    26   -36    22 u=011 imp:n=1
01567   0                 -338   329   -48    18   -22    15 u=011 imp:n=1
01568   0                 -326   323   -48    18   -22    15 u=011 imp:n=1
01569   0                 -322   319   -25    18   -23    49 u=011 imp:n=1
01570   0                  -19   333   -21    18   -22    15 u=011 imp:n=1
01571   0                 -332   329   -21    48   -22    15 u=011 imp:n=1
01572   0                 -328   323   -21    48   -22    15 u=011 imp:n=1
01573   0                  -19   333   -25    18   -23    49 u=011 imp:n=1
01574   0                 -322   319   -21    48   -22    15 u=011 imp:n=1
01575   0                 -328   327   -48    18   -23    49 u=011 imp:n=1
01576   0                 -318   315   -21    48   -22    15 u=011 imp:n=1
01577   0                  -19   333   -21    18    -6    22 u=011 imp:n=1
01578   0                 -314    17   -21    18    -6    15 u=011 imp:n=1
```

```
01579   0                  -10    13   -14     4    -6     5 u=011 imp:n=1
01580   0                  -19   333   -25    18   -49    35 u=011 imp:n=1
01581   0                  -12     9   -14     4    -6     5 u=011 imp:n=1
01582   0                 -328   327   -48    18   -24    23 u=011 imp:n=1
01583   0                  -19   333   -25    18   -24    23 u=011 imp:n=1
01584   0                 -322   319   -25    18   -24    23 u=011 imp:n=1
01585   0                 -338   329   -48    18   -37    36 u=011 imp:n=1
01586   0                 -315   336   -48    18   -68    37 u=011 imp:n=1
01587   0                  -19   333   -21    18   -35    32 u=011 imp:n=1
01588   0                 -326   337   -48    18   -50    37 u=011 imp:n=1
01589   0                  -19   339   -48    18   -70    37 u=011 imp:n=1
01590   0                 -332   338   -48    18   -70    68 u=011 imp:n=1
01591   0                 -327   337   -48    18   -70    50 u=011 imp:n=1
01592   0                 -318   336   -48    18   -70    68 u=011 imp:n=1
01593   0                 -314    17   -48    18   -70    37 u=011 imp:n=1
01594   0                  -19    75   -48    18   -79    70 u=011 imp:n=1
01595   0                  -19   333   -21    18   -32    31 u=011 imp:n=1
01596   0                  -80    78   -48    18   -79    77 u=011 imp:n=1
01597   0                  -19    17   -14    48   -79    37 u=011 imp:n=1
01598   0                  -19    17   -14    18   -16    79 u=011 imp:n=1
01599   0                  -19   332   -48    18   -37    24 u=011 imp:n=1
01600   0                 -326   323   -26    18   -24    22 u=011 imp:n=1
01601   0                 -338   329   -26    18   -36    22 u=011 imp:n=1
01602   0                 -328   327   -48    18   -37    24 u=011 imp:n=1
01603   0                 -326   319   -48    18   -37    24 u=011 imp:n=1
01604   0                  -19   329   -21    48   -37    24 u=011 imp:n=1
01605   0                 -328   319   -21    48   -37    24 u=011 imp:n=1
01606   0                 -315    17   -48    18   -37    24 u=011 imp:n=1
01607   0                 -318    17   -21    48   -37    24 u=011 imp:n=1
01608   0                  -19   333   -21    25   -24    35 u=011 imp:n=1
01609   0                 -332   329   -21    25   -24    22 u=011 imp:n=1
01610   0                 -328   323   -21    25   -24    22 u=011 imp:n=1
01611   0                 -322   319   -21    25   -24    22 u=011 imp:n=1
01612   0                 -318   315   -21    25   -24    22 u=011 imp:n=1
01613   0                  -19    17   -14    21   -37    15 u=011 imp:n=1
01614   3  0.8540120E-01    -2     1    -4     3   -81    11 u=011  imp:n=1
01615   3  0.8540120E-01    -2     1    -8     7   -81    11 u=011  imp:n=1
01616   3  0.8540120E-01    -9     1    -7     4   -81    11 u=011  imp:n=1
01617   3  0.8540120E-01    -2    10    -7     4   -81    11 u=011  imp:n=1
01618  34  0.1035093E+00   -82     9   -83     4   -85    84 u=011  imp:n=1
01619   0                  -10     9    -7     4   -84    11 u=011 imp:n=1
01620   0                  -10     9    -7     4   -81    85 u=011 imp:n=1
01621   0                  -10     9    -7    83   -85    84 u=011 imp:n=1
01622   0                  -10    82   -83     4   -85    84 u=011 imp:n=1
01623   1  0.3030146E-01    -2     1    -4     3    -6     5 u=012  imp:n=1
01624   1  0.3030146E-01    -2     1    -8     7    -6     5 u=012  imp:n=1
01625   2  0.7570860E-01    -9     1    -7     4    -6     5 u=012  imp:n=1
01626   2  0.7570860E-01    -2    10    -7     4    -6     5 u=012  imp:n=1
01627   3  0.8540120E-01    -2     1    -4     3   -11     6 u=012  imp:n=1
01628   3  0.8540120E-01    -2     1    -8     7   -11     6 u=012  imp:n=1
01629   3  0.8540120E-01    -9     1    -7     4   -11     6 u=012  imp:n=1
01630   3  0.8540120E-01    -2    10    -7     4   -11     6 u=012  imp:n=1
01631   4  0.7332760E-01   -13    12   -14     4   -15     5 u=012  imp:n=1
01632   5  0.3966184E-01   -13    12   -14     4   -11    16 u=012  imp:n=1
01633   6  0.3747366E-01   -17    12   -14    18   -16    15 u=012  imp:n=1
01634   6  0.3747366E-01   -13    19   -14    18   -16    15 u=012  imp:n=1
01635   6  0.3747366E-01   -13    12   -18     4   -16    15 u=012  imp:n=1
01636  51  0.1119518E+00  -147   146   -48    18  -242    15 u=012  imp:n=1
01637  52  0.1112539E+00  -147   146   -48    18  -243   242 u=012  imp:n=1
01638   7  0.8235419E-01  -244   117   -21    18   -22    15 u=012  imp:n=1
01639   7  0.8235419E-01  -244   117   -21    18   -24    23 u=012  imp:n=1
01640   8  0.7986135E-01  -244   117   -21    25   -23    22 u=012  imp:n=1
01641   8  0.7986135E-01  -244   117   -26    18   -23    22 u=012  imp:n=1
01642   9  0.6943934E-01  -245   117   -25    26   -23    22 u=012  imp:n=1
01643   9  0.6943934E-01  -244   246   -25    26   -23    22 u=012  imp:n=1
01644  10  0.4603587E-01  -246   245   -25    26   -23    22 u=012  imp:n=1
01645  25  0.1201037E+00  -340   117   -48    18   -67    24 u=012  imp:n=1
01646  60  0.6601119E-01  -289   117  -342   341  -343    70 u=012  imp:n=1
01647  60  0.6601119E-01  -289   117   -48   344  -343    70 u=012  imp:n=1
01648  61  0.6601310E-01  -289   117  -344   342  -343   345 u=012  imp:n=1
01649  61  0.6601310E-01  -289   117  -344   342  -346    70 u=012  imp:n=1
01650   0                 -289   117  -344   342  -345   346 u=012 imp:n=1
01651  60  0.6601119E-01  -289   117  -342   341  -347   343 u=012  imp:n=1
01652  60  0.6601119E-01  -289   117   -48   344  -347   343 u=012  imp:n=1
01653  61  0.6601310E-01  -289   117  -344   342  -347   348 u=012  imp:n=1
01654  61  0.6601310E-01  -289   117  -344   342  -349   343 u=012  imp:n=1
```

```
01655   0                 -289   117  -344   342  -348   349 u=012 imp:n=1
01656  60  0.6601119E-01  -289   117  -342   341  -350   347 u=012  imp:n=1
01657  60  0.6601119E-01  -289   117   -48   344  -350   347 u=012  imp:n=1
01658  61  0.6601310E-01  -289   117  -344   342  -350   351 u=012  imp:n=1
01659  61  0.6601310E-01  -289   117  -344   342  -352   347 u=012  imp:n=1
01660   0                 -289   117  -344   342  -351   352 u=012 imp:n=1
01661  60  0.6601119E-01  -289   117  -342   341  -250   350 u=012  imp:n=1
01662  60  0.6601119E-01  -289   117   -48   344  -250   350 u=012  imp:n=1
01663  61  0.6601310E-01  -289   117  -344   342  -250   353 u=012  imp:n=1
01664  61  0.6601310E-01  -289   117  -344   342  -354   350 u=012  imp:n=1
01665   0                 -289   117  -344   342  -353   354 u=012 imp:n=1
01666  15  0.8003452E-01  -258   257   -21    18   -22    15 u=012  imp:n=1
01667  15  0.8003452E-01  -258   257   -21    18   -24    23 u=012  imp:n=1
01668  16  0.7744373E-01  -258   257   -21    25   -23    22 u=012  imp:n=1
01669  16  0.7744373E-01  -258   257   -26    18   -23    22 u=012  imp:n=1
01670  17  0.6733980E-01  -259   257   -25    26   -23    22 u=012  imp:n=1
01671  17  0.6733980E-01  -258   260   -25    26   -23    22 u=012  imp:n=1
01672  18  0.4487970E-01  -260   259   -25    26   -23    22 u=012  imp:n=1
01673  60  0.6601119E-01  -247   289  -342   341  -343    70 u=012  imp:n=1
01674  60  0.6601119E-01  -247   289   -48   344  -343    70 u=012  imp:n=1
01675  61  0.6601310E-01  -247   289  -344   342  -343   345 u=012  imp:n=1
01676  61  0.6601310E-01  -247   289  -344   342  -346    70 u=012  imp:n=1
01677   0                 -247   289  -344   342  -345   346 u=012 imp:n=1
01678  60  0.6601119E-01  -247   289  -342   341  -347   343 u=012  imp:n=1
01679  60  0.6601119E-01  -247   289   -48   344  -347   343 u=012  imp:n=1
01680  61  0.6601310E-01  -247   289  -344   342  -347   348 u=012  imp:n=1
01681  61  0.6601310E-01  -247   289  -344   342  -349   343 u=012  imp:n=1
01682   0                 -247   289  -344   342  -348   349 u=012 imp:n=1
01683  60  0.6601119E-01  -247   289  -342   341  -350   347 u=012  imp:n=1
01684  60  0.6601119E-01  -247   289   -48   344  -350   347 u=012  imp:n=1
01685  61  0.6601310E-01  -247   289  -344   342  -350   351 u=012  imp:n=1
01686  61  0.6601310E-01  -247   289  -344   342  -352   347 u=012  imp:n=1
01687   0                 -247   289  -344   342  -351   352 u=012 imp:n=1
01688  60  0.6601119E-01  -247   289  -342   341  -250   350 u=012  imp:n=1
01689  60  0.6601119E-01  -247   289   -48   344  -250   350 u=012  imp:n=1
01690  61  0.6601310E-01  -247   289  -344   342  -250   353 u=012  imp:n=1
01691  61  0.6601310E-01  -247   289  -344   342  -354   350 u=012  imp:n=1
01692   0                 -247   289  -344   342  -353   354 u=012 imp:n=1
01693  62  0.8630075E-01  -355   127   -48    18  -356    15 u=012  imp:n=1
01694  63  0.3112637E-01  -355   127   -48    18  -158   357 u=012  imp:n=1
01695  64  0.7416011E-01  -355   127   -48   251  -357   356 u=012  imp:n=1
01696  64  0.7416011E-01  -355   127  -252    18  -357   356 u=012  imp:n=1
01697  65  0.7056425E-01  -358   127  -251   252  -357   356 u=012  imp:n=1
01698  65  0.7056425E-01  -355   359  -251   252  -357   356 u=012  imp:n=1
01699   0                 -359   358  -251   252  -357   356 u=012 imp:n=1
01700  60  0.6601119E-01  -355   127  -342   341   -49   158 u=012  imp:n=1
01701  60  0.6601119E-01  -355   127   -48   344   -49   158 u=012  imp:n=1
01702  61  0.6601310E-01  -355   127  -344   342   -49   360 u=012  imp:n=1
01703  61  0.6601310E-01  -355   127  -344   342  -361   158 u=012  imp:n=1
01704   0                 -355   127  -344   342  -360   361 u=012 imp:n=1
01705  53  0.8228339E-01  -201   247   -48    18  -248    70 u=012  imp:n=1
01706  54  0.2192774E-01  -201   247   -48    18  -250   249 u=012  imp:n=1
01707  55  0.7070584E-01  -201   247   -48   251  -249   248 u=012  imp:n=1
01708  55  0.7070584E-01  -201   247  -252    18  -249   248 u=012  imp:n=1
01709  56  0.6618348E-01  -255   247  -251   252  -249   248 u=012  imp:n=1
01710  56  0.6618348E-01  -201   256  -251   252  -249   248 u=012  imp:n=1
01711   0                 -256   255  -251   252  -249   248 u=012 imp:n=1
01712  15  0.8003452E-01  -363   362   -21    18   -22    15 u=012  imp:n=1
01713  15  0.8003452E-01  -363   362   -21    18   -24    23 u=012  imp:n=1
01714  16  0.7744373E-01  -363   362   -21    25   -23    22 u=012  imp:n=1
01715  16  0.7744373E-01  -363   362   -26    18   -23    22 u=012  imp:n=1
01716  17  0.6733980E-01  -364   362   -25    26   -23    22 u=012  imp:n=1
01717  17  0.6733980E-01  -363   365   -25    26   -23    22 u=012  imp:n=1
01718  18  0.4487970E-01  -365   364   -25    26   -23    22 u=012  imp:n=1
01719  29  0.1183522E+00  -111   362   -48    18   -70    37 u=012  imp:n=1
01720  11  0.7961518E-01  -367   366   -21    18   -22    15 u=012  imp:n=1
01721  11  0.7961518E-01  -367   366   -21    18   -32    31 u=012  imp:n=1
01722  12  0.7714468E-01  -367   366   -21    25   -31    22 u=012  imp:n=1
01723  12  0.7714468E-01  -367   366   -26    18   -31    22 u=012  imp:n=1
01724  13  0.6712964E-01  -368   366   -25    26   -31    22 u=012  imp:n=1
01725  13  0.6712964E-01  -367   369   -25    26   -31    22 u=012  imp:n=1
01726  14  0.4579853E-01  -369   368   -25    26   -31    22 u=012  imp:n=1
01727  11  0.7961518E-01  -367   366   -21    18   -35    32 u=012  imp:n=1
01728  11  0.7961518E-01  -367   366   -21    18   -37    36 u=012  imp:n=1
01729  12  0.7714468E-01  -367   366   -21    25   -36    35 u=012  imp:n=1
01730  12  0.7714468E-01  -367   366   -26    18   -36    35 u=012  imp:n=1
```

```
01731  13  0.6712964E-01  -368   366   -25    26   -36    35 u=012  imp:n=1
01732  13  0.6712964E-01  -367   369   -25    26   -36    35 u=012  imp:n=1
01733  14  0.4579853E-01  -369   368   -25    26   -36    35 u=012  imp:n=1
01734  58  0.1026764E+00  -261   202   -48    18  -243    15 u=012  imp:n=1
01735  58  0.1026764E+00  -117   202   -48    18  -158   243 u=012  imp:n=1
01736  58  0.1026764E+00  -117   202   -48    18  -370   158 u=012  imp:n=1
01737  58  0.1026764E+00  -117   202   -48    18   -49   370 u=012  imp:n=1
01738  50  0.1387665E+00  -117   202   -48    18   -68    49 u=012  imp:n=1
01739  50  0.1387665E+00  -117   202   -48    18  -371    68 u=012  imp:n=1
01740  50  0.1387665E+00  -117   202   -48    18  -372   371 u=012  imp:n=1
01741  50  0.1387665E+00  -117   202   -48    18  -241   372 u=012  imp:n=1
01742  58  0.1026764E+00  -262   261   -48    18  -243    15 u=012  imp:n=1
01743  58  0.1026764E+00  -146   262   -48    18  -243    15 u=012  imp:n=1
01744  58  0.1026764E+00  -264   147   -48    18  -243    15 u=012  imp:n=1
01745  58  0.1026764E+00   -46   264   -48    18  -243    15 u=012  imp:n=1
01746  58  0.1026764E+00  -117    46   -48    18  -243    15 u=012  imp:n=1
01747  30  0.5464445E-01  -257   244   -48    18   -49    15 u=012  imp:n=1
01748  24  0.1232187E+00  -373   340   -48    18   -67    24 u=012  imp:n=1
01749  26  0.7164290E-01  -127   258   -48    18   -68    15 u=012  imp:n=1
01750  24  0.1232187E+00  -355   127   -48    18   -50    49 u=012  imp:n=1
01751  26  0.7164290E-01  -362   355   -48    18   -68    15 u=012  imp:n=1
01752  30  0.5464445E-01  -366   363   -48    18   -49    15 u=012  imp:n=1
01753  31  0.2714513E-01   -75    17   -48    18  -265   250 u=012  imp:n=1
01754   0                  -12     9   -14     4   -11     6 u=012 imp:n=1
01755   0                  -10    13   -14     4   -11     6 u=012 imp:n=1
01756   0                  -10     9    -7    14   -11     5 u=012 imp:n=1
01757   0                 -117    17   -21    48   -24   243 u=012 imp:n=1
01758   0                 -202    17   -48    26   -23   243 u=012 imp:n=1
01759   0                  -19   367   -48    18  -356    15 u=012 imp:n=1
01760   0                  -19   367  -252    18   -22   356 u=012 imp:n=1
01761   0                  -19   367   -21    48   -22    15 u=012 imp:n=1
01762   0                 -366   363   -21    48   -22    15 u=012 imp:n=1
01763   0                 -362   258   -21    48   -22    15 u=012 imp:n=1
01764   0                 -257   244   -21    48   -22    15 u=012 imp:n=1
01765   0                 -257   244   -25    18   -23    49 u=012 imp:n=1
01766   0                 -257   244   -25    48   -49    22 u=012 imp:n=1
01767   0                  -19   367   -48    26  -158   243 u=012 imp:n=1
01768   0                 -117    17   -21    48    -6    15 u=012 imp:n=1
01769   0                 -362   258   -25    48   -23    22 u=012 imp:n=1
01770   0                 -366   363   -25    48   -49    22 u=012 imp:n=1
01771   0                  -19   367   -25    48   -49    22 u=012 imp:n=1
01772   0                  -10    13   -14     4    -6     5 u=012 imp:n=1
01773   0                  -12     9   -14     4    -6     5 u=012 imp:n=1
01774   0                 -366   363   -25    18   -23    49 u=012 imp:n=1
01775   0                  -19   367   -25    26   -24    49 u=012 imp:n=1
01776   0                 -355   127  -341    18   -49   158 u=012 imp:n=1
01777   0                  -19   367  -342    26   -49   158 u=012 imp:n=1
01778   0                  -19   367   -48   342   -49   158 u=012 imp:n=1
01779   0                 -117    17   -21    48  -242     6 u=012 imp:n=1
01780   0                  -19   367   -48   251  -243   356 u=012 imp:n=1
01781   0                  -19   367  -252    26  -243    22 u=012 imp:n=1
01782   0                  -19   367  -251   252  -243   356 u=012 imp:n=1
01783   0                 -202    17   -48    18  -243    15 u=012 imp:n=1
01784   0                 -117    17   -21    48  -243   242 u=012 imp:n=1
01785   0                 -366   363   -25    18   -24    23 u=012 imp:n=1
01786   0                 -362   258   -21    48   -24    23 u=012 imp:n=1
01787   0                 -257   244   -21    18   -24    23 u=012 imp:n=1
01788   0                 -362   355   -48    18   -50    68 u=012 imp:n=1
01789   0                 -202    17   -26    18   -23   243 u=012 imp:n=1
01790   0                 -127   373   -48    18   -50    68 u=012 imp:n=1
01791   0                 -362   373   -48    18   -67    50 u=012 imp:n=1
01792   0                 -366   362   -48    18   -37    24 u=012 imp:n=1
01793   0                 -258   373   -48    18   -68    24 u=012 imp:n=1
01794   0                  -19   367   -26    18   -36    22 u=012 imp:n=1
01795   0                  -19   367   -21    18   -37    36 u=012 imp:n=1
01796   0                  -19   367   -25    26   -36    24 u=012 imp:n=1
01797   0                 -366    17   -21    48   -37    24 u=012 imp:n=1
01798   0                  -19   201   -48   344  -343    70 u=012 imp:n=1
01799   0                  -19    17   -14    21   -37    15 u=012 imp:n=1
01800   0                 -247   117  -341    18  -248    70 u=012 imp:n=1
01801   0                 -257   244   -21    25   -23    22 u=012 imp:n=1
01802   0                 -362   258   -21    25   -23    22 u=012 imp:n=1
01803   0                 -366   363   -21    25   -24    22 u=012 imp:n=1
01804   0                  -19   367   -21    25   -36    22 u=012 imp:n=1
01805   0                  -19    17   -14    48  -265    37 u=012 imp:n=1
01806   0                 -202    17   -48    18   -70    23 u=012 imp:n=1
```

```
01807   0                  -362   117   -48    18   -70    67 u=012 imp:n=1
01808   0                   -19   111   -48    18   -70    37 u=012 imp:n=1
01809   0                   -19    17   -14    18   -16   265 u=012 imp:n=1
01810   0                  -202    17  -341    18  -248    70 u=012 imp:n=1
01811   0                   -19    75   -48    18  -265   250 u=012 imp:n=1
01812   0                  -247    17  -341    18  -250   241 u=012 imp:n=1
01813   0                  -202    17  -342    18  -241   350 u=012 imp:n=1
01814   0                  -247   117  -341    18  -241   350 u=012 imp:n=1
01815   0                   -19   201  -341    18  -250   350 u=012 imp:n=1
01816   0                   -19   201  -341    18  -343    70 u=012 imp:n=1
01817   0                   -19   201   -48   344  -347   343 u=012 imp:n=1
01818   0                   -19   201  -341    18  -347   343 u=012 imp:n=1
01819   0                  -202    17  -342   341  -350    70 u=012 imp:n=1
01820   0                   -19   201   -48   344  -350   347 u=012 imp:n=1
01821   0                  -202    17   -48   344  -350    70 u=012 imp:n=1
01822   0                  -117    17   -48   341  -250   241 u=012 imp:n=1
01823   0                  -202    17   -48   342  -241   350 u=012 imp:n=1
01824   0                   -19   201  -344   342  -250    70 u=012 imp:n=1
01825   0                  -202    17  -344   342  -350    70 u=012 imp:n=1
01826   0                  -247   117  -252    18  -350   248 u=012 imp:n=1
01827   0                  -202    17  -252    18  -350   248 u=012 imp:n=1
01828   0                   -19   201  -341    18  -350   347 u=012 imp:n=1
01829   0                  -247   117  -341   252  -350   248 u=012 imp:n=1
01830   0                  -202    17  -341   252  -350   248 u=012 imp:n=1
01831   0                   -19   201  -342   341  -250    70 u=012 imp:n=1
01832   0                   -19   201   -48   344  -250   350 u=012 imp:n=1
01833   3  0.8540120E-01    -2     1    -4     3   -81    11 u=012  imp:n=1
01834   3  0.8540120E-01    -2     1    -8     7   -81    11 u=012  imp:n=1
01835   3  0.8540120E-01    -9     1    -7     4   -81    11 u=012  imp:n=1
01836   3  0.8540120E-01    -2    10    -7     4   -81    11 u=012  imp:n=1
01837  34  0.1035093E+00   -82     9   -83     4   -85    84 u=012  imp:n=1
01838   0                  -10     9    -7     4   -84    11 u=012 imp:n=1
01839   0                  -10     9    -7     4   -81    85 u=012 imp:n=1
01840   0                  -10     9    -7    83   -85    84 u=012 imp:n=1
01841   0                  -10    82   -83     4   -85    84 u=012 imp:n=1
01842   1  0.3030146E-01    -2     1    -4     3    -6     5 u=013  imp:n=1
01843   1  0.3030146E-01    -2     1    -8     7    -6     5 u=013  imp:n=1
01844   2  0.7570860E-01    -9     1    -7     4    -6     5 u=013  imp:n=1
01845   2  0.7570860E-01    -2    10    -7     4    -6     5 u=013  imp:n=1
01846   3  0.8540120E-01    -2     1    -4     3   -11     6 u=013  imp:n=1
01847   3  0.8540120E-01    -2     1    -8     7   -11     6 u=013  imp:n=1
01848   3  0.8540120E-01    -9     1    -7     4   -11     6 u=013  imp:n=1
01849   3  0.8540120E-01    -2    10    -7     4   -11     6 u=013  imp:n=1
01850   4  0.7332760E-01   -13    12   -14     4   -15     5 u=013  imp:n=1
01851   5  0.3966184E-01   -13    12   -14     4   -11    16 u=013  imp:n=1
01852   6  0.3747366E-01   -17    12   -14    18   -16    15 u=013  imp:n=1
01853   6  0.3747366E-01   -13    19   -14    18   -16    15 u=013  imp:n=1
01854   6  0.3747366E-01   -13    12   -18     4   -16    15 u=013  imp:n=1
01855  66  0.1220593E+00   -75    17   -48    18   -50    49 u=013  imp:n=1
01856  67  0.1389863E+00   -75   374   -48    18  -221    15 u=013  imp:n=1
01857  68  0.1389384E+00   -75   374   -48    18   -49   221 u=013  imp:n=1
01858  67  0.1389863E+00  -374    17   -48    18  -221    15 u=013  imp:n=1
01859  68  0.1389384E+00  -374    17   -48    18   -49   221 u=013  imp:n=1
01860  31  0.2714513E-01   -75    17   -48    18  -375    50 u=013  imp:n=1
01861  32  0.8823003E-01   -75    17   -48    18  -376   375 u=013  imp:n=1
01862  33  0.8829426E-01   -78    17   -48    18  -377   376 u=013  imp:n=1
01863  33  0.8829426E-01   -75    80   -48    18  -377   376 u=013  imp:n=1
01864   0                  -12     9   -14     4   -11     6 u=013 imp:n=1
01865   0                  -10    13   -14     4   -11     6 u=013 imp:n=1
01866   0                  -10     9    -7    14   -11     5 u=013 imp:n=1
01867   0                  -19    17   -14    48  -377    15 u=013 imp:n=1
01868   0                  -19    75   -48    18  -377    15 u=013 imp:n=1
01869   0                  -10    13   -14     4    -6     5 u=013 imp:n=1
01870   0                  -12     9   -14     4    -6     5 u=013 imp:n=1
01871   0                  -19    17   -14    18   -16   377 u=013 imp:n=1
01872   0                  -80    78   -48    18  -377   376 u=013 imp:n=1
01873   3  0.8540120E-01    -2     1    -4     3   -81    11 u=013  imp:n=1
01874   3  0.8540120E-01    -2     1    -8     7   -81    11 u=013  imp:n=1
01875   3  0.8540120E-01    -9     1    -7     4   -81    11 u=013  imp:n=1
01876   3  0.8540120E-01    -2    10    -7     4   -81    11 u=013  imp:n=1
01877  34  0.1035093E+00   -82     9   -83     4   -85    84 u=013  imp:n=1
01878   0                  -10     9    -7     4   -84    11 u=013 imp:n=1
01879   0                  -10     9    -7     4   -81    85 u=013 imp:n=1
01880   0                  -10     9    -7    83   -85    84 u=013 imp:n=1
01881   0                  -10    82   -83     4   -85    84 u=013 imp:n=1
01882   1  0.3030146E-01    -2     1    -4     3    -6     5 u=014  imp:n=1
```

```
01883   1  0.3030146E-01    -2     1    -8     7    -6     5 u=014  imp:n=1
01884   2  0.7570860E-01    -9     1    -7     4    -6     5 u=014  imp:n=1
01885   2  0.7570860E-01    -2    10    -7     4    -6     5 u=014  imp:n=1
01886   3  0.8540120E-01    -2     1    -4     3   -11     6 u=014  imp:n=1
01887   3  0.8540120E-01    -2     1    -8     7   -11     6 u=014  imp:n=1
01888   3  0.8540120E-01    -9     1    -7     4   -11     6 u=014  imp:n=1
01889   3  0.8540120E-01    -2    10    -7     4   -11     6 u=014  imp:n=1
01890   4  0.7332760E-01   -13    12   -14     4   -15     5 u=014  imp:n=1
01891   5  0.3966184E-01   -13    12   -14     4   -11    16 u=014  imp:n=1
01892   6  0.3747366E-01   -17    12   -14    18   -16    15 u=014  imp:n=1
01893   6  0.3747366E-01   -13    19   -14    18   -16    15 u=014  imp:n=1
01894   6  0.3747366E-01   -13    12   -18     4   -16    15 u=014  imp:n=1
01895  67  0.1389863E+00   -75   374   -48    18  -221    15 u=014  imp:n=1
01896  68  0.1389384E+00   -75   374   -48    18   -49   221 u=014  imp:n=1
01897  36  0.6435380E-01   -66    17   -48    18  -158    15 u=014  imp:n=1
01898  37  0.6435380E-01   -66    17   -48    18   -49   158 u=014  imp:n=1
01899  69  0.8126189E-01   -66    17   -48    18  -378    49 u=014  imp:n=1
01900  35  0.8186756E-01   -66    17   -48    18  -162   378 u=014  imp:n=1
01901  40  0.5178530E-01  -374   379   -48    18  -162   166 u=014  imp:n=1
01902  39  0.1185481E+00  -379   380   -48    18   -50    15 u=014  imp:n=1
01903  59  0.1256220E+00   -75   374   -48    18   -50    49 u=014  imp:n=1
01904  41  0.5279270E-01  -380    66   -48    18  -161    15 u=014  imp:n=1
01905  42  0.5392130E-01  -380    66   -48    18  -162   161 u=014  imp:n=1
01906  41  0.5279270E-01  -374   379   -48    18  -161    15 u=014  imp:n=1
01907  42  0.5392130E-01  -374   379   -48    18  -166   161 u=014  imp:n=1
01908  31  0.2714513E-01   -75    17   -48    18  -169   162 u=014  imp:n=1
01909  32  0.8823003E-01   -75    17   -48    18  -170   169 u=014  imp:n=1
01910  33  0.8829426E-01   -78    17   -48    18  -171   170 u=014  imp:n=1
01911  33  0.8829426E-01   -75    80   -48    18  -171   170 u=014  imp:n=1
01912   0                  -12     9   -14     4   -11     6 u=014 imp:n=1
01913   0                  -10    13   -14     4   -11     6 u=014 imp:n=1
01914   0                  -10     9    -7    14   -11     5 u=014 imp:n=1
01915   0                  -19    17   -14    18   -16   171 u=014 imp:n=1
01916   0                  -19    17   -14    48  -171    15 u=014 imp:n=1
01917   0                  -80    78   -48    18  -171   170 u=014 imp:n=1
01918   0                  -19    75   -48    18  -171   162 u=014 imp:n=1
01919   0                  -10    13   -14     4    -6     5 u=014 imp:n=1
01920   0                  -12     9   -14     4    -6     5 u=014 imp:n=1
01921   0                  -19   374   -48    18  -162    50 u=014 imp:n=1
01922   0                 -379   380   -48    18  -162    50 u=014 imp:n=1
01923   0                  -19    75   -48    18   -50    15 u=014 imp:n=1
01924   3  0.8540120E-01    -2     1    -4     3   -81    11 u=014  imp:n=1
01925   3  0.8540120E-01    -2     1    -8     7   -81    11 u=014  imp:n=1
01926   3  0.8540120E-01    -9     1    -7     4   -81    11 u=014  imp:n=1
01927   3  0.8540120E-01    -2    10    -7     4   -81    11 u=014  imp:n=1
01928  34  0.1035093E+00   -82     9   -83     4   -85    84 u=014  imp:n=1
01929   0                  -10     9    -7     4   -84    11 u=014 imp:n=1
01930   0                  -10     9    -7     4   -81    85 u=014 imp:n=1
01931   0                  -10     9    -7    83   -85    84 u=014 imp:n=1
01932   0                  -10    82   -83     4   -85    84 u=014 imp:n=1
01933   1  0.3030146E-01    -2     1    -4     3    -6     5 u=015  imp:n=1
01934   1  0.3030146E-01    -2     1    -8     7    -6     5 u=015  imp:n=1
01935   2  0.7570860E-01    -9     1    -7     4    -6     5 u=015  imp:n=1
01936   2  0.7570860E-01    -2    10    -7     4    -6     5 u=015  imp:n=1
01937   3  0.8540120E-01    -2     1    -4     3   -11     6 u=015  imp:n=1
01938   3  0.8540120E-01    -2     1    -8     7   -11     6 u=015  imp:n=1
01939   3  0.8540120E-01    -9     1    -7     4   -11     6 u=015  imp:n=1
01940   3  0.8540120E-01    -2    10    -7     4   -11     6 u=015  imp:n=1
01941   4  0.7332760E-01   -13    12   -14     4   -15     5 u=015  imp:n=1
01942   5  0.3966184E-01   -13    12   -14     4   -11    16 u=015  imp:n=1
01943   6  0.3747366E-01   -17    12   -14    18   -16    15 u=015  imp:n=1
01944   6  0.3747366E-01   -13    19   -14    18   -16    15 u=015  imp:n=1
01945   6  0.3747366E-01   -13    12   -18     4   -16    15 u=015  imp:n=1
01946  67  0.1389863E+00  -374    17   -48    18  -221    15 u=015  imp:n=1
01947  68  0.1389384E+00  -374    17   -48    18   -49   221 u=015  imp:n=1
01948  36  0.6435380E-01   -75   381   -48    18  -158    15 u=015  imp:n=1
01949  37  0.6435380E-01   -75   381   -48    18   -49   158 u=015  imp:n=1
01950  69  0.8126189E-01   -75   381   -48    18  -378    49 u=015  imp:n=1
01951  35  0.8186756E-01   -75   381   -48    18  -162   378 u=015  imp:n=1
01952  40  0.5178530E-01  -382   374   -48    18  -162   166 u=015  imp:n=1
01953  39  0.1185481E+00  -383   382   -48    18   -50    15 u=015  imp:n=1
01954  59  0.1256220E+00  -374    17   -48    18   -50    49 u=015  imp:n=1
01955  41  0.5279270E-01  -381   383   -48    18  -161    15 u=015  imp:n=1
01956  42  0.5392130E-01  -381   383   -48    18  -162   161 u=015  imp:n=1
01957  41  0.5279270E-01  -382   374   -48    18  -161    15 u=015  imp:n=1
01958  42  0.5392130E-01  -382   374   -48    18  -166   161 u=015  imp:n=1
```

```
01959  31  0.2714513E-01   -75    17   -48    18  -169   162 u=015  imp:n=1
01960  32  0.8823003E-01   -75    17   -48    18  -170   169 u=015  imp:n=1
01961  33  0.8829426E-01   -78    17   -48    18  -171   170 u=015  imp:n=1
01962  33  0.8829426E-01   -75    80   -48    18  -171   170 u=015  imp:n=1
01963   0                  -12     9   -14     4   -11     6 u=015 imp:n=1
01964   0                  -10    13   -14     4   -11     6 u=015 imp:n=1
01965   0                  -10     9    -7    14   -11     5 u=015 imp:n=1
01966   0                  -19    17   -14    18   -16   171 u=015 imp:n=1
01967   0                  -19    17   -14    48  -171    15 u=015 imp:n=1
01968   0                  -80    78   -48    18  -171   170 u=015 imp:n=1
01969   0                  -19    75   -48    18  -171    15 u=015 imp:n=1
01970   0                  -10    13   -14     4    -6     5 u=015 imp:n=1
01971   0                  -12     9   -14     4    -6     5 u=015 imp:n=1
01972   0                 -383   382   -48    18  -162    50 u=015 imp:n=1
01973   0                 -374    17   -48    18  -162    50 u=015 imp:n=1
01974   3  0.8540120E-01    -2     1    -4     3   -81    11 u=015  imp:n=1
01975   3  0.8540120E-01    -2     1    -8     7   -81    11 u=015  imp:n=1
01976   3  0.8540120E-01    -9     1    -7     4   -81    11 u=015  imp:n=1
01977   3  0.8540120E-01    -2    10    -7     4   -81    11 u=015  imp:n=1
01978  34  0.1035093E+00   -82     9   -83     4   -85    84 u=015  imp:n=1
01979   0                  -10     9    -7     4   -84    11 u=015 imp:n=1
01980   0                  -10     9    -7     4   -81    85 u=015 imp:n=1
01981   0                  -10     9    -7    83   -85    84 u=015 imp:n=1
01982   0                  -10    82   -83     4   -85    84 u=015 imp:n=1
01983   1  0.3030146E-01    -2     1    -4     3    -6     5 u=016  imp:n=1
01984   1  0.3030146E-01    -2     1    -8     7    -6     5 u=016  imp:n=1
01985   2  0.7570860E-01    -9     1    -7     4    -6     5 u=016  imp:n=1
01986   2  0.7570860E-01    -2    10    -7     4    -6     5 u=016  imp:n=1
01987   3  0.8540120E-01    -2     1    -4     3   -11     6 u=016  imp:n=1
01988   3  0.8540120E-01    -2     1    -8     7   -11     6 u=016  imp:n=1
01989   3  0.8540120E-01    -9     1    -7     4   -11     6 u=016  imp:n=1
01990   3  0.8540120E-01    -2    10    -7     4   -11     6 u=016  imp:n=1
01991   4  0.7332760E-01   -13    12   -14     4   -15     5 u=016  imp:n=1
01992   5  0.3966184E-01   -13    12   -14     4   -11    16 u=016  imp:n=1
01993   6  0.3747366E-01   -17    12   -14    18   -16    15 u=016  imp:n=1
01994   6  0.3747366E-01   -13    19   -14    18   -16    15 u=016  imp:n=1
01995   6  0.3747366E-01   -13    12   -18     4   -16    15 u=016  imp:n=1
01996  67  0.1389863E+00   -75    17   -48   341  -221    15 u=016  imp:n=1
01997  68  0.1389384E+00   -75    17   -48   341   -49   221 u=016  imp:n=1
01998  36  0.6435380E-01   -75    17  -218    18  -158    15 u=016  imp:n=1
01999  37  0.6435380E-01   -75    17  -218    18   -49   158 u=016  imp:n=1
02000  69  0.8126189E-01   -75    17  -218    18  -378    49 u=016  imp:n=1
02001  35  0.8186756E-01   -75    17  -218    18  -162   378 u=016  imp:n=1
02002  40  0.5178530E-01   -75    17  -341   384  -162   166 u=016  imp:n=1
02003  39  0.1185481E+00   -75    17  -384   211   -50    15 u=016  imp:n=1
02004  59  0.1256220E+00   -75    17   -48   341   -50    49 u=016  imp:n=1
02005  41  0.5279270E-01   -75    17  -211   218  -161    15 u=016  imp:n=1
02006  42  0.5392130E-01   -75    17  -211   218  -162   161 u=016  imp:n=1
02007  41  0.5279270E-01   -75    17  -341   384  -161    15 u=016  imp:n=1
02008  42  0.5392130E-01   -75    17  -341   384  -166   161 u=016  imp:n=1
02009  31  0.2714513E-01   -75    17   -48    18  -169   162 u=016  imp:n=1
02010  32  0.8823003E-01   -75    17   -48    18  -170   169 u=016  imp:n=1
02011  33  0.8829426E-01   -78    17   -48    18  -171   170 u=016  imp:n=1
02012  33  0.8829426E-01   -75    80   -48    18  -171   170 u=016  imp:n=1
02013   0                  -12     9   -14     4   -11     6 u=016 imp:n=1
02014   0                  -10    13   -14     4   -11     6 u=016 imp:n=1
02015   0                  -10     9    -7    14   -11     5 u=016 imp:n=1
02016   0                  -19    17   -14    18   -16   171 u=016 imp:n=1
02017   0                  -19    17   -14    48  -171   162 u=016 imp:n=1
02018   0                  -80    78   -48    18  -171   170 u=016 imp:n=1
02019   0                  -19    75   -48    18  -171   162 u=016 imp:n=1
02020   0                  -19    75  -341   218    -6    15 u=016 imp:n=1
02021   0                  -10    13   -14     4    -6     5 u=016 imp:n=1
02022   0                  -12     9   -14     4    -6     5 u=016 imp:n=1
02023   0                  -19    75   -48   218  -166   378 u=016 imp:n=1
02024   0                  -19    75  -341   218  -221     6 u=016 imp:n=1
02025   0                  -19    17   -14    48   -50    15 u=016 imp:n=1
02026   0                  -19    75   -48   341   -49    15 u=016 imp:n=1
02027   0                  -19    75  -341   218  -158   221 u=016 imp:n=1
02028   0                  -19    17  -384   211  -162    50 u=016 imp:n=1
02029   0                  -19    75  -211   218  -162   166 u=016 imp:n=1
02030   0                  -19    75  -341   218   -49   158 u=016 imp:n=1
02031   0                  -19    75  -384   211   -50   166 u=016 imp:n=1
02032   0                  -19    17   -14   341  -162    50 u=016 imp:n=1
02033   0                  -19    75   -48   384  -378    49 u=016 imp:n=1
02034   0                  -19    75   -48   341   -50   166 u=016 imp:n=1
```

```
02035   0                  -19    75  -341   384  -162   166 u=016 imp:n=1
02036   0                  -19    75  -218    18  -162    15 u=016 imp:n=1
02037   0                  -19    75  -384   218  -378    49 u=016 imp:n=1
02038   3  0.8540120E-01    -2     1    -4     3   -81    11 u=016  imp:n=1
02039   3  0.8540120E-01    -2     1    -8     7   -81    11 u=016  imp:n=1
02040   3  0.8540120E-01    -9     1    -7     4   -81    11 u=016  imp:n=1
02041   3  0.8540120E-01    -2    10    -7     4   -81    11 u=016  imp:n=1
02042  34  0.1035093E+00   -82     9   -83     4   -85    84 u=016  imp:n=1
02043   0                  -10     9    -7     4   -84    11 u=016 imp:n=1
02044   0                  -10     9    -7     4   -81    85 u=016 imp:n=1
02045   0                  -10     9    -7    83   -85    84 u=016 imp:n=1
02046   0                  -10    82   -83     4   -85    84 u=016 imp:n=1
02047   1  0.3030146E-01    -2     1    -4     3    -6     5 u=017  imp:n=1
02048   1  0.3030146E-01    -2     1    -8     7    -6     5 u=017  imp:n=1
02049   2  0.7570860E-01    -9     1    -7     4    -6     5 u=017  imp:n=1
02050   2  0.7570860E-01    -2    10    -7     4    -6     5 u=017  imp:n=1
02051   3  0.8540120E-01    -2     1    -4     3   -11     6 u=017  imp:n=1
02052   3  0.8540120E-01    -2     1    -8     7   -11     6 u=017  imp:n=1
02053   3  0.8540120E-01    -9     1    -7     4   -11     6 u=017  imp:n=1
02054   3  0.8540120E-01    -2    10    -7     4   -11     6 u=017  imp:n=1
02055   4  0.7332760E-01   -13    12   -14     4   -15     5 u=017  imp:n=1
02056   5  0.3966184E-01   -13    12   -14     4   -11    16 u=017  imp:n=1
02057   6  0.3747366E-01   -17    12   -14    18   -16    15 u=017  imp:n=1
02058   6  0.3747366E-01   -13    19   -14    18   -16    15 u=017  imp:n=1
02059   6  0.3747366E-01   -13    12   -18     4   -16    15 u=017  imp:n=1
02060  67  0.1389863E+00   -75    17  -341    18  -221    15 u=017  imp:n=1
02061  68  0.1389384E+00   -75    17  -341    18   -49   221 u=017  imp:n=1
02062  36  0.6435380E-01   -75    17   -48   236  -158    15 u=017  imp:n=1
02063  37  0.6435380E-01   -75    17   -48   236   -49   158 u=017  imp:n=1
02064  69  0.8126189E-01   -75    17   -48   236  -378    49 u=017  imp:n=1
02065  35  0.8186756E-01   -75    17   -48   236  -162   378 u=017  imp:n=1
02066  40  0.5178530E-01   -75    17  -385   341  -162   166 u=017  imp:n=1
02067  39  0.1185481E+00   -75    17  -386   385   -50    15 u=017  imp:n=1
02068  59  0.1256220E+00   -75    17  -341    18   -50    49 u=017  imp:n=1
02069  41  0.5279270E-01   -75    17  -236   386  -161    15 u=017  imp:n=1
02070  42  0.5392130E-01   -75    17  -236   386  -162   161 u=017  imp:n=1
02071  41  0.5279270E-01   -75    17  -385   341  -161    15 u=017  imp:n=1
02072  42  0.5392130E-01   -75    17  -385   341  -166   161 u=017  imp:n=1
02073  31  0.2714513E-01   -75    17   -48    18  -169   162 u=017  imp:n=1
02074  32  0.8823003E-01   -75    17   -48    18  -170   169 u=017  imp:n=1
02075  33  0.8829426E-01   -78    17   -48    18  -171   170 u=017  imp:n=1
02076  33  0.8829426E-01   -75    80   -48    18  -171   170 u=017  imp:n=1
02077   0                  -12     9   -14     4   -11     6 u=017 imp:n=1
02078   0                  -10    13   -14     4   -11     6 u=017 imp:n=1
02079   0                  -10     9    -7    14   -11     5 u=017 imp:n=1
02080   0                  -19    17   -14    18   -16   171 u=017 imp:n=1
02081   0                  -19    17   -14    48  -171    15 u=017 imp:n=1
02082   0                  -80    78   -48    18  -171   170 u=017 imp:n=1
02083   0                  -19    75   -48    18  -171   162 u=017 imp:n=1
02084   0                  -19    75  -386   341    -6    15 u=017 imp:n=1
02085   0                  -10    13   -14     4    -6     5 u=017 imp:n=1
02086   0                  -12     9   -14     4    -6     5 u=017 imp:n=1
02087   0                  -19    75  -236    18  -166   378 u=017 imp:n=1
02088   0                  -19    75  -386   341  -221     6 u=017 imp:n=1
02089   0                  -19    75  -341    18   -49    15 u=017 imp:n=1
02090   0                  -19    75  -386   341  -158   221 u=017 imp:n=1
02091   0                  -19    17  -341    18  -162    50 u=017 imp:n=1
02092   0                  -19    75  -341    18   -50   166 u=017 imp:n=1
02093   0                  -19    17  -386   385  -162    50 u=017 imp:n=1
02094   0                  -19    75  -236   386  -162   166 u=017 imp:n=1
02095   0                  -19    75  -386   341   -49   158 u=017 imp:n=1
02096   0                  -19    75  -386   385   -50   166 u=017 imp:n=1
02097   0                  -19    75  -385   341  -162   166 u=017 imp:n=1
02098   0                  -19    75  -236   386  -378    15 u=017 imp:n=1
02099   0                  -19    75   -48   236  -162    15 u=017 imp:n=1
02100   0                  -19    75  -386    18  -378    49 u=017 imp:n=1
02101   3  0.8540120E-01    -2     1    -4     3   -81    11 u=017  imp:n=1
02102   3  0.8540120E-01    -2     1    -8     7   -81    11 u=017  imp:n=1
02103   3  0.8540120E-01    -9     1    -7     4   -81    11 u=017  imp:n=1
02104   3  0.8540120E-01    -2    10    -7     4   -81    11 u=017  imp:n=1
02105  34  0.1035093E+00   -82     9   -83     4   -85    84 u=017  imp:n=1
02106   0                  -10     9    -7     4   -84    11 u=017 imp:n=1
02107   0                  -10     9    -7     4   -81    85 u=017 imp:n=1
02108   0                  -10     9    -7    83   -85    84 u=017 imp:n=1
02109   0                  -10    82   -83     4   -85    84 u=017 imp:n=1
02110   1  0.3030146E-01    -2     1    -4     3    -6     5 u=018  imp:n=1
```

```
02111   1  0.3030146E-01    -2     1    -8     7    -6     5 u=018  imp:n=1
02112   2  0.7570860E-01    -9     1    -7     4    -6     5 u=018  imp:n=1
02113   2  0.7570860E-01    -2    10    -7     4    -6     5 u=018  imp:n=1
02114   3  0.8540120E-01    -2     1    -4     3   -11     6 u=018  imp:n=1
02115   3  0.8540120E-01    -2     1    -8     7   -11     6 u=018  imp:n=1
02116   3  0.8540120E-01    -9     1    -7     4   -11     6 u=018  imp:n=1
02117   3  0.8540120E-01    -2    10    -7     4   -11     6 u=018  imp:n=1
02118   4  0.7332760E-01   -13    12   -14     4   -15     5 u=018  imp:n=1
02119   5  0.3966184E-01   -13    12   -14     4   -11    16 u=018  imp:n=1
02120   6  0.3747366E-01   -17    12   -14    18   -16    15 u=018  imp:n=1
02121   6  0.3747366E-01   -13    19   -14    18   -16    15 u=018  imp:n=1
02122   6  0.3747366E-01   -13    12   -18     4   -16    15 u=018  imp:n=1
02123  48  0.1333519E+00  -387    17   -48    18   -49   158 u=018  imp:n=1
02124  70  0.1209636E+00  -388   387   -48    18   -49    15 u=018  imp:n=1
02125  71  0.1208255E+00   -75   388   -48    18   -49    15 u=018  imp:n=1
02126  66  0.1220593E+00   -75    17   -48    18   -50    49 u=018  imp:n=1
02127  49  0.1333121E+00  -387    17   -48    18  -221    15 u=018  imp:n=1
02128  49  0.1333121E+00  -387    17   -48    18  -158   221 u=018  imp:n=1
02129  31  0.2714513E-01   -75    17   -48    18  -375    50 u=018  imp:n=1
02130  32  0.8823003E-01   -75    17   -48    18  -376   375 u=018  imp:n=1
02131  33  0.8829426E-01   -78    17   -48    18  -377   376 u=018  imp:n=1
02132  33  0.8829426E-01   -75    80   -48    18  -377   376 u=018  imp:n=1
02133   0                  -12     9   -14     4   -11     6 u=018 imp:n=1
02134   0                  -10    13   -14     4   -11     6 u=018 imp:n=1
02135   0                  -10     9    -7    14   -11     5 u=018 imp:n=1
02136   0                  -19    17   -14    48  -377    15 u=018 imp:n=1
02137   0                  -19    75   -48    18  -377    15 u=018 imp:n=1
02138   0                  -19    17   -14    18   -16   377 u=018 imp:n=1
02139   0                  -10    13   -14     4    -6     5 u=018 imp:n=1
02140   0                  -80    78   -48    18  -377   376 u=018 imp:n=1
02141   0                  -12     9   -14     4    -6     5 u=018 imp:n=1
02142   3  0.8540120E-01    -2     1    -4     3   -81    11 u=018  imp:n=1
02143   3  0.8540120E-01    -2     1    -8     7   -81    11 u=018  imp:n=1
02144   3  0.8540120E-01    -9     1    -7     4   -81    11 u=018  imp:n=1
02145   3  0.8540120E-01    -2    10    -7     4   -81    11 u=018  imp:n=1
02146  34  0.1035093E+00   -82     9   -83     4   -85    84 u=018  imp:n=1
02147   0                  -10     9    -7     4   -84    11 u=018 imp:n=1
02148   0                  -10     9    -7     4   -81    85 u=018 imp:n=1
02149   0                  -10     9    -7    83   -85    84 u=018 imp:n=1
02150   0                  -10    82   -83     4   -85    84 u=018 imp:n=1
02151   1  0.3030146E-01    -2     1    -4     3    -6     5 u=019  imp:n=1
02152   1  0.3030146E-01    -2     1    -8     7    -6     5 u=019  imp:n=1
02153   2  0.7570860E-01    -9     1    -7     4    -6     5 u=019  imp:n=1
02154   2  0.7570860E-01    -2    10    -7     4    -6     5 u=019  imp:n=1
02155   3  0.8540120E-01    -2     1    -4     3   -11     6 u=019  imp:n=1
02156   3  0.8540120E-01    -2     1    -8     7   -11     6 u=019  imp:n=1
02157   3  0.8540120E-01    -9     1    -7     4   -11     6 u=019  imp:n=1
02158   3  0.8540120E-01    -2    10    -7     4   -11     6 u=019  imp:n=1
02159   4  0.7332760E-01   -13    12   -14     4   -15     5 u=019  imp:n=1
02160   5  0.3966184E-01   -13    12   -14     4   -11    16 u=019  imp:n=1
02161   6  0.3747366E-01   -17    12   -14    18   -16    15 u=019  imp:n=1
02162   6  0.3747366E-01   -13    19   -14    18   -16    15 u=019  imp:n=1
02163   6  0.3747366E-01   -13    12   -18     4   -16    15 u=019  imp:n=1
02164  48  0.1333519E+00   -75   388   -48    18   -49   158 u=019  imp:n=1
02165  70  0.1209636E+00  -388   387   -48    18   -49    15 u=019  imp:n=1
02166  71  0.1208255E+00  -387    17   -48    18   -49    15 u=019  imp:n=1
02167  66  0.1220593E+00   -75    17   -48    18   -50    49 u=019  imp:n=1
02168  49  0.1333121E+00   -75   388   -48    18  -221    15 u=019  imp:n=1
02169  49  0.1333121E+00   -75   388   -48    18  -158   221 u=019  imp:n=1
02170  31  0.2714513E-01   -75    17   -48    18  -375    50 u=019  imp:n=1
02171  32  0.8823003E-01   -75    17   -48    18  -376   375 u=019  imp:n=1
02172  33  0.8829426E-01   -78    17   -48    18  -377   376 u=019  imp:n=1
02173  33  0.8829426E-01   -75    80   -48    18  -377   376 u=019  imp:n=1
02174   0                  -12     9   -14     4   -11     6 u=019 imp:n=1
02175   0                  -10    13   -14     4   -11     6 u=019 imp:n=1
02176   0                  -10     9    -7    14   -11     5 u=019 imp:n=1
02177   0                  -19    17   -14    48  -377    15 u=019 imp:n=1
02178   0                  -19    75   -48    18  -377    15 u=019 imp:n=1
02179   0                  -10    13   -14     4    -6     5 u=019 imp:n=1
02180   0                  -19    17   -14    18   -16   377 u=019 imp:n=1
02181   0                  -12     9   -14     4    -6     5 u=019 imp:n=1
02182   0                  -80    78   -48    18  -377   376 u=019 imp:n=1
02183   3  0.8540120E-01    -2     1    -4     3   -81    11 u=019  imp:n=1
02184   3  0.8540120E-01    -2     1    -8     7   -81    11 u=019  imp:n=1
02185   3  0.8540120E-01    -9     1    -7     4   -81    11 u=019  imp:n=1
02186   3  0.8540120E-01    -2    10    -7     4   -81    11 u=019  imp:n=1
```

```
02187  34  0.1035093E+00   -82     9   -83     4   -85    84 u=019  imp:n=1
02188   0                  -10     9    -7     4   -84    11 u=019 imp:n=1
02189   0                  -10     9    -7     4   -81    85 u=019 imp:n=1
02190   0                  -10     9    -7    83   -85    84 u=019 imp:n=1
02191   0                  -10    82   -83     4   -85    84 u=019 imp:n=1
02192   1  0.3030146E-01    -2     1    -4     3    -6     5 u=020  imp:n=1
02193   1  0.3030146E-01    -2     1    -8     7    -6     5 u=020  imp:n=1
02194   2  0.7570860E-01    -9     1    -7     4    -6     5 u=020  imp:n=1
02195   2  0.7570860E-01    -2    10    -7     4    -6     5 u=020  imp:n=1
02196   3  0.8540120E-01    -2     1    -4     3   -11     6 u=020  imp:n=1
02197   3  0.8540120E-01    -2     1    -8     7   -11     6 u=020  imp:n=1
02198   3  0.8540120E-01    -9     1    -7     4   -11     6 u=020  imp:n=1
02199   3  0.8540120E-01    -2    10    -7     4   -11     6 u=020  imp:n=1
02200   4  0.7332760E-01   -13    12   -14     4   -15     5 u=020  imp:n=1
02201   5  0.3966184E-01   -13    12   -14     4   -11    16 u=020  imp:n=1
02202   6  0.3747366E-01   -17    12   -14    18   -16    15 u=020  imp:n=1
02203   6  0.3747366E-01   -13    19   -14    18   -16    15 u=020  imp:n=1
02204   6  0.3747366E-01   -13    12   -18     4   -16    15 u=020  imp:n=1
02205  48  0.1333519E+00   -75    17  -222    18   -49   158 u=020  imp:n=1
02206  70  0.1209636E+00   -75    17  -224   222   -49    15 u=020  imp:n=1
02207  71  0.1208255E+00   -75    17   -48   224   -49    15 u=020  imp:n=1
02208  66  0.1220593E+00   -75    17   -48    18   -50    49 u=020  imp:n=1
02209  49  0.1333121E+00   -75    17  -222    18  -221    15 u=020  imp:n=1
02210  49  0.1333121E+00   -75    17  -222    18  -158   221 u=020  imp:n=1
02211  31  0.2714513E-01   -75    17   -48    18  -375    50 u=020  imp:n=1
02212  32  0.8823003E-01   -75    17   -48    18  -376   375 u=020  imp:n=1
02213  33  0.8829426E-01   -78    17   -48    18  -377   376 u=020  imp:n=1
02214  33  0.8829426E-01   -75    80   -48    18  -377   376 u=020  imp:n=1
02215   0                  -12     9   -14     4   -11     6 u=020 imp:n=1
02216   0                  -10    13   -14     4   -11     6 u=020 imp:n=1
02217   0                  -10     9    -7    14   -11     5 u=020 imp:n=1
02218   0                  -19    75   -48    18  -158     6 u=020 imp:n=1
02219   0                  -19    75   -48    18    -6    15 u=020 imp:n=1
02220   0                  -19    17   -14    48  -377    15 u=020 imp:n=1
02221   0                  -10    13   -14     4    -6     5 u=020 imp:n=1
02222   0                  -12     9   -14     4    -6     5 u=020 imp:n=1
02223   0                  -19    17   -14    18   -16   377 u=020 imp:n=1
02224   0                  -80    78   -48    18  -377   376 u=020 imp:n=1
02225   0                  -19    75   -48    18  -377    49 u=020 imp:n=1
02226   0                  -19    75   -48    18   -49   158 u=020 imp:n=1
02227   3  0.8540120E-01    -2     1    -4     3   -81    11 u=020  imp:n=1
02228   3  0.8540120E-01    -2     1    -8     7   -81    11 u=020  imp:n=1
02229   3  0.8540120E-01    -9     1    -7     4   -81    11 u=020  imp:n=1
02230   3  0.8540120E-01    -2    10    -7     4   -81    11 u=020  imp:n=1
02231  34  0.1035093E+00   -82     9   -83     4   -85    84 u=020  imp:n=1
02232   0                  -10     9    -7     4   -84    11 u=020 imp:n=1
02233   0                  -10     9    -7     4   -81    85 u=020 imp:n=1
02234   0                  -10     9    -7    83   -85    84 u=020 imp:n=1
02235   0                  -10    82   -83     4   -85    84 u=020 imp:n=1
02236   1  0.3030146E-01    -2     1    -4     3    -6     5 u=021  imp:n=1
02237   1  0.3030146E-01    -2     1    -8     7    -6     5 u=021  imp:n=1
02238   2  0.7570860E-01    -9     1    -7     4    -6     5 u=021  imp:n=1
02239   2  0.7570860E-01    -2    10    -7     4    -6     5 u=021  imp:n=1
02240   3  0.8540120E-01    -2     1    -4     3   -11     6 u=021  imp:n=1
02241   3  0.8540120E-01    -2     1    -8     7   -11     6 u=021  imp:n=1
02242   3  0.8540120E-01    -9     1    -7     4   -11     6 u=021  imp:n=1
02243   3  0.8540120E-01    -2    10    -7     4   -11     6 u=021  imp:n=1
02244   4  0.7332760E-01   -13    12   -14     4   -15     5 u=021  imp:n=1
02245   5  0.3966184E-01   -13    12   -14     4   -11    16 u=021  imp:n=1
02246   6  0.3747366E-01   -17    12   -14    18   -16    15 u=021  imp:n=1
02247   6  0.3747366E-01   -13    19   -14    18   -16    15 u=021  imp:n=1
02248   6  0.3747366E-01   -13    12   -18     4   -16    15 u=021  imp:n=1
02249  48  0.1333519E+00   -75    17   -48   224   -49   158 u=021  imp:n=1
02250  70  0.1209636E+00   -75    17  -224   222   -49    15 u=021  imp:n=1
02251  71  0.1208255E+00   -75    17  -222    18   -49    15 u=021  imp:n=1
02252  66  0.1220593E+00   -75    17   -48    18   -50    49 u=021  imp:n=1
02253  49  0.1333121E+00   -75    17   -48   224  -221    15 u=021  imp:n=1
02254  49  0.1333121E+00   -75    17   -48   224  -158   221 u=021  imp:n=1
02255  31  0.2714513E-01   -75    17   -48    18  -375    50 u=021  imp:n=1
02256  32  0.8823003E-01   -75    17   -48    18  -376   375 u=021  imp:n=1
02257  33  0.8829426E-01   -78    17   -48    18  -377   376 u=021  imp:n=1
02258  33  0.8829426E-01   -75    80   -48    18  -377   376 u=021  imp:n=1
02259   0                  -12     9   -14     4   -11     6 u=021 imp:n=1
02260   0                  -10    13   -14     4   -11     6 u=021 imp:n=1
02261   0                  -10     9    -7    14   -11     5 u=021 imp:n=1
02262   0                  -19    75  -224    18  -158     6 u=021 imp:n=1
```

```
02263   0                  -19    17   -14    48  -377    15 u=021 imp:n=1
02264   0                  -19    75   -48   224   -49    15 u=021 imp:n=1
02265   0                  -19    75  -224    18    -6    15 u=021 imp:n=1
02266   0                  -10    13   -14     4    -6     5 u=021 imp:n=1
02267   0                  -12     9   -14     4    -6     5 u=021 imp:n=1
02268   0                  -19    17   -14    18   -16   377 u=021 imp:n=1
02269   0                  -80    78   -48    18  -377   376 u=021 imp:n=1
02270   0                  -19    75   -48    18  -377    49 u=021 imp:n=1
02271   0                  -19    75  -224    18   -49   158 u=021 imp:n=1
02272   3  0.8540120E-01    -2     1    -4     3   -81    11 u=021  imp:n=1
02273   3  0.8540120E-01    -2     1    -8     7   -81    11 u=021  imp:n=1
02274   3  0.8540120E-01    -9     1    -7     4   -81    11 u=021  imp:n=1
02275   3  0.8540120E-01    -2    10    -7     4   -81    11 u=021  imp:n=1
02276  34  0.1035093E+00   -82     9   -83     4   -85    84 u=021  imp:n=1
02277   0                  -10     9    -7     4   -84    11 u=021 imp:n=1
02278   0                  -10     9    -7     4   -81    85 u=021 imp:n=1
02279   0                  -10     9    -7    83   -85    84 u=021 imp:n=1
02280   0                  -10    82   -83     4   -85    84 u=021 imp:n=1
02281   1  0.3030146E-01    -2     1    -4     3    -6     5 u=022  imp:n=1
02282   1  0.3030146E-01    -2     1    -8     7    -6     5 u=022  imp:n=1
02283   2  0.7570860E-01    -9     1    -7     4    -6     5 u=022  imp:n=1
02284   2  0.7570860E-01    -2    10    -7     4    -6     5 u=022  imp:n=1
02285   3  0.8540120E-01    -2     1    -4     3   -11     6 u=022  imp:n=1
02286   3  0.8540120E-01    -2     1    -8     7   -11     6 u=022  imp:n=1
02287   3  0.8540120E-01    -9     1    -7     4   -11     6 u=022  imp:n=1
02288   3  0.8540120E-01    -2    10    -7     4   -11     6 u=022  imp:n=1
02289   4  0.7332760E-01   -13    12   -14     4   -15     5 u=022  imp:n=1
02290   5  0.3966184E-01   -13    12   -14     4   -11    16 u=022  imp:n=1
02291   6  0.3747366E-01   -17    12   -14    18   -16    15 u=022  imp:n=1
02292   6  0.3747366E-01   -13    19   -14    18   -16    15 u=022  imp:n=1
02293   6  0.3747366E-01   -13    12   -18     4   -16    15 u=022  imp:n=1
02294  67  0.1389863E+00  -374    17   -48    18  -221    15 u=022  imp:n=1
02295  68  0.1389384E+00  -374    17   -48    18   -49   221 u=022  imp:n=1
02296  70  0.1209636E+00   -75   374   -48    18   -49    15 u=022  imp:n=1
02297  66  0.1220593E+00   -75    17   -48    18   -50    49 u=022  imp:n=1
02298  31  0.2714513E-01   -75    17   -48    18  -375    50 u=022  imp:n=1
02299  32  0.8823003E-01   -75    17   -48    18  -376   375 u=022  imp:n=1
02300  33  0.8829426E-01   -78    17   -48    18  -377   376 u=022  imp:n=1
02301  33  0.8829426E-01   -75    80   -48    18  -377   376 u=022  imp:n=1
02302   0                  -12     9   -14     4   -11     6 u=022 imp:n=1
02303   0                  -10    13   -14     4   -11     6 u=022 imp:n=1
02304   0                  -10     9    -7    14   -11     5 u=022 imp:n=1
02305   0                  -19    17   -14    18   -16   377 u=022 imp:n=1
02306   0                  -19    17   -14    48  -377    15 u=022 imp:n=1
02307   0                  -80    78   -48    18  -377   376 u=022 imp:n=1
02308   0                  -19    75   -48    18  -377    15 u=022 imp:n=1
02309   0                  -10    13   -14     4    -6     5 u=022 imp:n=1
02310   0                  -12     9   -14     4    -6     5 u=022 imp:n=1
02311   3  0.8540120E-01    -2     1    -4     3   -81    11 u=022  imp:n=1
02312   3  0.8540120E-01    -2     1    -8     7   -81    11 u=022  imp:n=1
02313   3  0.8540120E-01    -9     1    -7     4   -81    11 u=022  imp:n=1
02314   3  0.8540120E-01    -2    10    -7     4   -81    11 u=022  imp:n=1
02315  34  0.1035093E+00   -82     9   -83     4   -85    84 u=022  imp:n=1
02316   0                  -10     9    -7     4   -84    11 u=022 imp:n=1
02317   0                  -10     9    -7     4   -81    85 u=022 imp:n=1
02318   0                  -10     9    -7    83   -85    84 u=022 imp:n=1
02319   0                  -10    82   -83     4   -85    84 u=022 imp:n=1
02320   1  0.3030146E-01    -2     1    -4     3    -6     5 u=023  imp:n=1
02321   1  0.3030146E-01    -2     1    -8     7    -6     5 u=023  imp:n=1
02322   2  0.7570860E-01    -9     1    -7     4    -6     5 u=023  imp:n=1
02323   2  0.7570860E-01    -2    10    -7     4    -6     5 u=023  imp:n=1
02324   3  0.8540120E-01    -2     1    -4     3   -11     6 u=023  imp:n=1
02325   3  0.8540120E-01    -2     1    -8     7   -11     6 u=023  imp:n=1
02326   3  0.8540120E-01    -9     1    -7     4   -11     6 u=023  imp:n=1
02327   3  0.8540120E-01    -2    10    -7     4   -11     6 u=023  imp:n=1
02328   4  0.7332760E-01   -13    12   -14     4   -15     5 u=023  imp:n=1
02329   5  0.3966184E-01   -13    12   -14     4   -11    16 u=023  imp:n=1
02330   6  0.3747366E-01   -17    12   -14    18   -16    15 u=023  imp:n=1
02331   6  0.3747366E-01   -13    19   -14    18   -16    15 u=023  imp:n=1
02332   6  0.3747366E-01   -13    12   -18     4   -16    15 u=023  imp:n=1
02333  67  0.1389863E+00   -75   374   -48    18  -221    15 u=023  imp:n=1
02334  68  0.1389384E+00   -75   374   -48    18   -49   221 u=023  imp:n=1
02335  70  0.1209636E+00  -374    17   -48    18   -49    15 u=023  imp:n=1
02336  66  0.1220593E+00   -75    17   -48    18   -50    49 u=023  imp:n=1
02337  31  0.2714513E-01   -75    17   -48    18  -375    50 u=023  imp:n=1
02338  32  0.8823003E-01   -75    17   -48    18  -376   375 u=023  imp:n=1
```

```
02339  33  0.8829426E-01   -78    17   -48    18  -377   376 u=023  imp:n=1
02340  33  0.8829426E-01   -75    80   -48    18  -377   376 u=023  imp:n=1
02341   0                  -12     9   -14     4   -11     6 u=023 imp:n=1
02342   0                  -10    13   -14     4   -11     6 u=023 imp:n=1
02343   0                  -10     9    -7    14   -11     5 u=023 imp:n=1
02344   0                  -19    17   -14    18   -16   377 u=023 imp:n=1
02345   0                  -19    17   -14    48  -377    15 u=023 imp:n=1
02346   0                  -80    78   -48    18  -377   376 u=023 imp:n=1
02347   0                  -19    75   -48    18  -377    15 u=023 imp:n=1
02348   0                  -10    13   -14     4    -6     5 u=023 imp:n=1
02349   0                  -12     9   -14     4    -6     5 u=023 imp:n=1
02350   3  0.8540120E-01    -2     1    -4     3   -81    11 u=023  imp:n=1
02351   3  0.8540120E-01    -2     1    -8     7   -81    11 u=023  imp:n=1
02352   3  0.8540120E-01    -9     1    -7     4   -81    11 u=023  imp:n=1
02353   3  0.8540120E-01    -2    10    -7     4   -81    11 u=023  imp:n=1
02354  34  0.1035093E+00   -82     9   -83     4   -85    84 u=023  imp:n=1
02355   0                  -10     9    -7     4   -84    11 u=023 imp:n=1
02356   0                  -10     9    -7     4   -81    85 u=023 imp:n=1
02357   0                  -10     9    -7    83   -85    84 u=023 imp:n=1
02358   0                  -10    82   -83     4   -85    84 u=023 imp:n=1
02359   1  0.3030146E-01    -2     1    -4     3    -6     5 u=024  imp:n=1
02360   1  0.3030146E-01    -2     1    -8     7    -6     5 u=024  imp:n=1
02361   2  0.7570860E-01    -9     1    -7     4    -6     5 u=024  imp:n=1
02362   2  0.7570860E-01    -2    10    -7     4    -6     5 u=024  imp:n=1
02363   3  0.8540120E-01    -2     1    -4     3   -11     6 u=024  imp:n=1
02364   3  0.8540120E-01    -2     1    -8     7   -11     6 u=024  imp:n=1
02365   3  0.8540120E-01    -9     1    -7     4   -11     6 u=024  imp:n=1
02366   3  0.8540120E-01    -2    10    -7     4   -11     6 u=024  imp:n=1
02367   4  0.7332760E-01   -13    12   -14     4   -15     5 u=024  imp:n=1
02368   5  0.3966184E-01   -13    12   -14     4   -11    16 u=024  imp:n=1
02369   6  0.3747366E-01   -17    12   -14    18   -16    15 u=024  imp:n=1
02370   6  0.3747366E-01   -13    19   -14    18   -16    15 u=024  imp:n=1
02371   6  0.3747366E-01   -13    12   -18     4   -16    15 u=024  imp:n=1
02372  67  0.1389863E+00   -75    17  -341    18  -221    15 u=024  imp:n=1
02373  68  0.1389384E+00   -75    17  -341    18   -49   221 u=024  imp:n=1
02374  70  0.1209636E+00   -75    17   -48   341   -49    15 u=024  imp:n=1
02375  66  0.1220593E+00   -75    17   -48    18   -50    49 u=024  imp:n=1
02376  31  0.2714513E-01   -75    17   -48    18  -375    50 u=024  imp:n=1
02377  32  0.8823003E-01   -75    17   -48    18  -376   375 u=024  imp:n=1
02378  33  0.8829426E-01   -78    17   -48    18  -377   376 u=024  imp:n=1
02379  33  0.8829426E-01   -75    80   -48    18  -377   376 u=024  imp:n=1
02380   0                  -12     9   -14     4   -11     6 u=024 imp:n=1
02381   0                  -10    13   -14     4   -11     6 u=024 imp:n=1
02382   0                  -10     9    -7    14   -11     5 u=024 imp:n=1
02383   0                  -19    17   -14    18   -16   377 u=024 imp:n=1
02384   0                  -19    17   -14    48  -377    15 u=024 imp:n=1
02385   0                  -80    78   -48    18  -377   376 u=024 imp:n=1
02386   0                  -19    75   -48    18  -377    49 u=024 imp:n=1
02387   0                  -19    75   -48    18    -6    15 u=024 imp:n=1
02388   0                  -10    13   -14     4    -6     5 u=024 imp:n=1
02389   0                  -12     9   -14     4    -6     5 u=024 imp:n=1
02390   0                  -19    75   -48    18  -221     6 u=024 imp:n=1
02391   0                  -19    75   -48    18   -49   221 u=024 imp:n=1
02392   3  0.8540120E-01    -2     1    -4     3   -81    11 u=024  imp:n=1
02393   3  0.8540120E-01    -2     1    -8     7   -81    11 u=024  imp:n=1
02394   3  0.8540120E-01    -9     1    -7     4   -81    11 u=024  imp:n=1
02395   3  0.8540120E-01    -2    10    -7     4   -81    11 u=024  imp:n=1
02396  34  0.1035093E+00   -82     9   -83     4   -85    84 u=024  imp:n=1
02397   0                  -10     9    -7     4   -84    11 u=024 imp:n=1
02398   0                  -10     9    -7     4   -81    85 u=024 imp:n=1
02399   0                  -10     9    -7    83   -85    84 u=024 imp:n=1
02400   0                  -10    82   -83     4   -85    84 u=024 imp:n=1
02401   1  0.3030146E-01    -2     1    -4     3    -6     5 u=025  imp:n=1
02402   1  0.3030146E-01    -2     1    -8     7    -6     5 u=025  imp:n=1
02403   2  0.7570860E-01    -9     1    -7     4    -6     5 u=025  imp:n=1
02404   2  0.7570860E-01    -2    10    -7     4    -6     5 u=025  imp:n=1
02405   3  0.8540120E-01    -2     1    -4     3   -11     6 u=025  imp:n=1
02406   3  0.8540120E-01    -2     1    -8     7   -11     6 u=025  imp:n=1
02407   3  0.8540120E-01    -9     1    -7     4   -11     6 u=025  imp:n=1
02408   3  0.8540120E-01    -2    10    -7     4   -11     6 u=025  imp:n=1
02409   4  0.7332760E-01   -13    12   -14     4   -15     5 u=025  imp:n=1
02410   5  0.3966184E-01   -13    12   -14     4   -11    16 u=025  imp:n=1
02411   6  0.3747366E-01   -17    12   -14    18   -16    15 u=025  imp:n=1
02412   6  0.3747366E-01   -13    19   -14    18   -16    15 u=025  imp:n=1
02413   6  0.3747366E-01   -13    12   -18     4   -16    15 u=025  imp:n=1
02414  67  0.1389863E+00   -75    17   -48   341  -221    15 u=025  imp:n=1
```

```
02415  68  0.1389384E+00   -75    17   -48   341   -49   221 u=025  imp:n=1
02416  70  0.1209636E+00   -75    17  -341    18   -49    15 u=025  imp:n=1
02417  66  0.1220593E+00   -75    17   -48    18   -50    49 u=025  imp:n=1
02418  31  0.2714513E-01   -75    17   -48    18  -375    50 u=025  imp:n=1
02419  32  0.8823003E-01   -75    17   -48    18  -376   375 u=025  imp:n=1
02420  33  0.8829426E-01   -78    17   -48    18  -377   376 u=025  imp:n=1
02421  33  0.8829426E-01   -75    80   -48    18  -377   376 u=025  imp:n=1
02422   0                  -12     9   -14     4   -11     6 u=025 imp:n=1
02423   0                  -10    13   -14     4   -11     6 u=025 imp:n=1
02424   0                  -10     9    -7    14   -11     5 u=025 imp:n=1
02425   0                  -19    17   -14    18   -16   377 u=025 imp:n=1
02426   0                  -19    17   -14    48  -377    15 u=025 imp:n=1
02427   0                  -80    78   -48    18  -377   376 u=025 imp:n=1
02428   0                  -19    75   -48    18  -377    49 u=025 imp:n=1
02429   0                  -19    75   -48    18    -6    15 u=025 imp:n=1
02430   0                  -10    13   -14     4    -6     5 u=025 imp:n=1
02431   0                  -12     9   -14     4    -6     5 u=025 imp:n=1
02432   0                  -19    75   -48    18  -221     6 u=025 imp:n=1
02433   0                  -19    75   -48    18   -49   221 u=025 imp:n=1
02434   3  0.8540120E-01    -2     1    -4     3   -81    11 u=025  imp:n=1
02435   3  0.8540120E-01    -2     1    -8     7   -81    11 u=025  imp:n=1
02436   3  0.8540120E-01    -9     1    -7     4   -81    11 u=025  imp:n=1
02437   3  0.8540120E-01    -2    10    -7     4   -81    11 u=025  imp:n=1
02438  34  0.1035093E+00   -82     9   -83     4   -85    84 u=025  imp:n=1
02439   0                  -10     9    -7     4   -84    11 u=025 imp:n=1
02440   0                  -10     9    -7     4   -81    85 u=025 imp:n=1
02441   0                  -10     9    -7    83   -85    84 u=025 imp:n=1
02442   0                  -10    82   -83     4   -85    84 u=025 imp:n=1
02443   1  0.3030146E-01    -2     1    -4     3    -6     5 u=026  imp:n=1
02444   1  0.3030146E-01    -2     1    -8     7    -6     5 u=026  imp:n=1
02445   2  0.7570860E-01    -9     1    -7     4    -6     5 u=026  imp:n=1
02446   2  0.7570860E-01    -2    10    -7     4    -6     5 u=026  imp:n=1
02447   3  0.8540120E-01    -2     1    -4     3   -11     6 u=026  imp:n=1
02448   3  0.8540120E-01    -2     1    -8     7   -11     6 u=026  imp:n=1
02449   3  0.8540120E-01    -9     1    -7     4   -11     6 u=026  imp:n=1
02450   3  0.8540120E-01    -2    10    -7     4   -11     6 u=026  imp:n=1
02451  72  0.8564162E-01   -10   389  -390     4   -11   391 u=026  imp:n=1
02452  72  0.8564162E-01   -10   389    -7   392   -11   391 u=026  imp:n=1
02453  73  0.8771651E-01  -393   389  -392   390   -11   391 u=026  imp:n=1
02454  73  0.8771651E-01   -10   394  -392   390   -11   391 u=026  imp:n=1
02455  74  0.8680103E-01  -395   393  -396   390  -398   397 u=026  imp:n=1
02456  75  0.3674999E-01  -395   393  -396   399   -11   398 u=026  imp:n=1
02457  75  0.3674999E-01  -395   393  -400   390   -11   398 u=026  imp:n=1
02458  76  0.6069073E-01  -401   393  -399   400   -11   398 u=026  imp:n=1
02459  76  0.6069073E-01  -395   402  -399   400   -11   398 u=026  imp:n=1
02460  77  0.1249976E+00  -402   401  -399   400   -11   398 u=026  imp:n=1
02461  78  0.8810584E-01  -404   403   -14     4   -15     5 u=026  imp:n=1
02462  79  0.4710631E-01  -404   403   -14     4   -11    16 u=026  imp:n=1
02463  80  0.4041931E-01  -405   403   -14    18   -16    15 u=026  imp:n=1
02464  80  0.4041931E-01  -404   406   -14    18   -16    15 u=026  imp:n=1
02465  81  0.2987062E-01  -404   403   -18     4   -16    15 u=026  imp:n=1
02466  82  0.6445910E-01  -408   407   -48    18  -158    15 u=026  imp:n=1
02467  37  0.6435380E-01  -408   407   -48    18   -49   158 u=026  imp:n=1
02468  23  0.1232400E+00  -410   409   -48    18   -49    15 u=026  imp:n=1
02469  24  0.1232187E+00  -410   409   -48    18   -50    49 u=026  imp:n=1
02470  67  0.1389863E+00  -411   405   -48    18  -221    15 u=026  imp:n=1
02471  68  0.1389384E+00  -411   405   -48    18   -49   221 u=026  imp:n=1
02472  59  0.1256220E+00  -411   405   -48    18   -50    49 u=026  imp:n=1
02473  41  0.5279270E-01  -409   411   -48    18  -161    15 u=026  imp:n=1
02474  42  0.5392130E-01  -409   411   -48    18  -166   161 u=026  imp:n=1
02475  40  0.5178530E-01  -409   411   -48    18  -162   166 u=026  imp:n=1
02476  35  0.8186756E-01  -407   410   -48    18   -49   158 u=026  imp:n=1
02477  69  0.8126189E-01  -407   410   -48    18  -158    15 u=026  imp:n=1
02478  69  0.8126189E-01  -408   410   -48    18  -378    49 u=026  imp:n=1
02479  35  0.8186756E-01  -408   410   -48    18  -166   378 u=026  imp:n=1
02480  35  0.8186756E-01  -408   410   -48    18  -162   166 u=026  imp:n=1
02481  83  0.2714513E-01  -408   405   -48    18  -169   162 u=026  imp:n=1
02482   0                  -403     9  -392   390   -11   391 u=026 imp:n=1
02483   0                  -406   405  -392    18   -16   169 u=026 imp:n=1
02484   0                  -406   405  -392    48  -169   391 u=026 imp:n=1
02485   0                  -406   408   -48   390  -169   391 u=026 imp:n=1
02486   0                  -411   405   -48    18  -162    50 u=026 imp:n=1
02487   0                  -410   409   -48    18  -162    50 u=026 imp:n=1
02488   0                  -389   404  -390     4    -6   391 u=026 imp:n=1
02489   0                  -403     9  -390     4    -6   391 u=026 imp:n=1
02490   0                  -406   408   -48    18  -391    15 u=026 imp:n=1
```

```
02491   0                 -406   405   -14    48  -391    15 u=026 imp:n=1
02492   0                  -10     9    -7    14  -391     5 u=026 imp:n=1
02493   0                  -10   404   -14     4  -391     5 u=026 imp:n=1
02494   0                 -403     9   -14     4  -391     5 u=026 imp:n=1
02495   0                 -406   408  -390    18  -169   391 u=026 imp:n=1
02496   0                 -389   404  -390     4   -11     6 u=026 imp:n=1
02497   0                 -389   404  -392   390   -11   391 u=026 imp:n=1
02498   0                 -403     9  -390     4   -11     6 u=026 imp:n=1
02499   0                 -389   404   -14   392   -11   391 u=026 imp:n=1
02500   0                 -394   393  -392   390  -397   391 u=026 imp:n=1
02501   0                 -394   395  -396   390   -11   397 u=026 imp:n=1
02502   0                 -406   405   -14   392   -16   391 u=026 imp:n=1
02503   0                 -394   393  -392   396   -11   397 u=026 imp:n=1
02504   0                 -403     9   -14   392   -11   391 u=026 imp:n=1
02505   0                 -389     9    -7    14   -11   391 u=026 imp:n=1
02506   3  0.8540120E-01    -2     1    -4     3   -81    11 u=026  imp:n=1
02507   3  0.8540120E-01    -2     1    -8     7   -81    11 u=026  imp:n=1
02508   3  0.8540120E-01    -9     1    -7     4   -81    11 u=026  imp:n=1
02509   3  0.8540120E-01    -2    10    -7     4   -81    11 u=026  imp:n=1
02510  72  0.8564162E-01   -10   389  -390     4   -81    11 u=026  imp:n=1
02511  72  0.8564162E-01   -10   389    -7   392   -81    11 u=026  imp:n=1
02512  73  0.8771651E-01  -393   389  -392   390   -81    11 u=026  imp:n=1
02513  73  0.8771651E-01   -10   394  -392   390   -81    11 u=026  imp:n=1
02514  74  0.8680103E-01  -395   393  -396   390  -412    11 u=026  imp:n=1
02515  75  0.3674999E-01  -395   393  -396   399   -81   412 u=026  imp:n=1
02516  75  0.3674999E-01  -395   393  -400   390   -81   412 u=026  imp:n=1
02517  76  0.6069073E-01  -401   393  -399   400   -81   412 u=026  imp:n=1
02518  76  0.6069073E-01  -395   402  -399   400   -81   412 u=026  imp:n=1
02519  77  0.1249976E+00  -402   401  -399   400   -81   412 u=026  imp:n=1
02520  84  0.1031404E+00  -413     9   -83     4   -85    84 u=026  imp:n=1
02521   0                 -389     9  -392     4   -84    11 u=026 imp:n=1
02522   0                 -389     9  -392     4   -81    85 u=026 imp:n=1
02523   0                 -389     9  -392    83   -85    84 u=026 imp:n=1
02524   0                 -389   413   -83     4   -85    84 u=026 imp:n=1
02525   0                 -394   395  -396   390   -81    11 u=026 imp:n=1
02526   0                 -394   393  -392   396   -81    11 u=026 imp:n=1
02527   0                 -389     9    -7   392   -81    11 u=026 imp:n=1
02528   1  0.3030146E-01    -2     1    -4     3    -6     5 u=027  imp:n=1
02529   1  0.3030146E-01    -2     1    -8     7    -6     5 u=027  imp:n=1
02530   2  0.7570860E-01    -9     1    -7     4    -6     5 u=027  imp:n=1
02531   2  0.7570860E-01    -2    10    -7     4    -6     5 u=027  imp:n=1
02532   3  0.8540120E-01    -2     1    -4     3   -11     6 u=027  imp:n=1
02533   3  0.8540120E-01    -2     1    -8     7   -11     6 u=027  imp:n=1
02534   3  0.8540120E-01    -9     1    -7     4   -11     6 u=027  imp:n=1
02535   3  0.8540120E-01    -2    10    -7     4   -11     6 u=027  imp:n=1
02536   4  0.7332760E-01   -13    12   -14     4   -15     5 u=027  imp:n=1
02537   5  0.3966184E-01   -13    12   -14     4   -11    16 u=027  imp:n=1
02538   6  0.3747366E-01   -17    12   -14    18   -16    15 u=027  imp:n=1
02539   6  0.3747366E-01   -13    19   -14    18   -16    15 u=027  imp:n=1
02540   6  0.3747366E-01   -13    12   -18     4   -16    15 u=027  imp:n=1
02541   7  0.8235419E-01   -20    17   -21    18   -22    15 u=027  imp:n=1
02542   7  0.8235419E-01   -20    17   -21    18   -24    23 u=027  imp:n=1
02543   8  0.7986135E-01   -20    17   -21    25   -23    22 u=027  imp:n=1
02544   8  0.7986135E-01   -20    17   -26    18   -23    22 u=027  imp:n=1
02545   9  0.6943934E-01   -27    17   -25    26   -23    22 u=027  imp:n=1
02546   9  0.6943934E-01   -20    28   -25    26   -23    22 u=027  imp:n=1
02547  10  0.4603587E-01   -28    27   -25    26   -23    22 u=027  imp:n=1
02548  11  0.7961518E-01   -30    29   -21    18   -22    15 u=027  imp:n=1
02549  11  0.7961518E-01   -30    29   -21    18   -32    31 u=027  imp:n=1
02550  12  0.7714468E-01   -30    29   -21    25   -31    22 u=027  imp:n=1
02551  12  0.7714468E-01   -30    29   -26    18   -31    22 u=027  imp:n=1
02552  13  0.6712964E-01   -33    29   -25    26   -31    22 u=027  imp:n=1
02553  13  0.6712964E-01   -30    34   -25    26   -31    22 u=027  imp:n=1
02554  14  0.4579853E-01   -34    33   -25    26   -31    22 u=027  imp:n=1
02555  11  0.7961518E-01   -30    29   -21    18   -35    32 u=027  imp:n=1
02556  11  0.7961518E-01   -30    29   -21    18   -37    36 u=027  imp:n=1
02557  12  0.7714468E-01   -30    29   -21    25   -36    35 u=027  imp:n=1
02558  12  0.7714468E-01   -30    29   -26    18   -36    35 u=027  imp:n=1
02559  13  0.6712964E-01   -33    29   -25    26   -36    35 u=027  imp:n=1
02560  13  0.6712964E-01   -30    34   -25    26   -36    35 u=027  imp:n=1
02561  14  0.4579853E-01   -34    33   -25    26   -36    35 u=027  imp:n=1
02562  15  0.8003452E-01   -39    38   -21    18   -22    15 u=027  imp:n=1
02563  15  0.8003452E-01   -39    38   -21    18   -24    23 u=027  imp:n=1
02564  16  0.7744373E-01   -39    38   -21    25   -23    22 u=027  imp:n=1
02565  16  0.7744373E-01   -39    38   -26    18   -23    22 u=027  imp:n=1
02566  17  0.6733980E-01   -40    38   -25    26   -23    22 u=027  imp:n=1
```

```
02567  17  0.6733980E-01   -39    41   -25    26   -23    22 u=027  imp:n=1
02568  18  0.4487970E-01   -41    40   -25    26   -23    22 u=027  imp:n=1
02569  19  0.7776510E-01   -43    42   -21    18   -22    15 u=027  imp:n=1
02570  19  0.7776510E-01   -43    42   -21    18   -32    31 u=027  imp:n=1
02571  20  0.7523151E-01   -43    42   -21    25   -31    22 u=027  imp:n=1
02572  20  0.7523151E-01   -43    42   -26    18   -31    22 u=027  imp:n=1
02573  21  0.6542969E-01   -44    42   -25    26   -31    22 u=027  imp:n=1
02574  21  0.6542969E-01   -43    45   -25    26   -31    22 u=027  imp:n=1
02575  22  0.4487471E-01   -45    44   -25    26   -31    22 u=027  imp:n=1
02576  19  0.7776510E-01   -43    42   -21    18   -35    32 u=027  imp:n=1
02577  19  0.7776510E-01   -43    42   -21    18   -37    36 u=027  imp:n=1
02578  20  0.7523151E-01   -43    42   -21    25   -36    35 u=027  imp:n=1
02579  20  0.7523151E-01   -43    42   -26    18   -36    35 u=027  imp:n=1
02580  21  0.6542969E-01   -44    42   -25    26   -36    35 u=027  imp:n=1
02581  21  0.6542969E-01   -43    45   -25    26   -36    35 u=027  imp:n=1
02582  22  0.4487471E-01   -45    44   -25    26   -36    35 u=027  imp:n=1
02583  62  0.8630075E-01   -47    46   -48    18  -356    15 u=027  imp:n=1
02584  63  0.3112637E-01   -47    46   -48    18  -158   357 u=027  imp:n=1
02585  64  0.7416011E-01   -47    46   -48   251  -357   356 u=027  imp:n=1
02586  64  0.7416011E-01   -47    46  -252    18  -357   356 u=027  imp:n=1
02587  65  0.7056425E-01  -414    46  -251   252  -357   356 u=027  imp:n=1
02588  65  0.7056425E-01   -47   415  -251   252  -357   356 u=027  imp:n=1
02589   0                 -415   414  -251   252  -357   356 u=027 imp:n=1
02590  60  0.6601119E-01   -47    46  -342   341   -49   158 u=027  imp:n=1
02591  60  0.6601119E-01   -47    46   -48   344   -49   158 u=027  imp:n=1
02592  61  0.6601310E-01   -47    46  -344   342   -49   360 u=027  imp:n=1
02593  61  0.6601310E-01   -47    46  -344   342  -361   158 u=027  imp:n=1
02594   0                  -47    46  -344   342  -360   361 u=027 imp:n=1
02595  24  0.1232187E+00   -47    46   -48    18   -50    49 u=027  imp:n=1
02596  19  0.7776510E-01   -52    51   -21    18   -22    15 u=027  imp:n=1
02597  19  0.7776510E-01   -52    51   -21    18   -32    31 u=027  imp:n=1
02598  20  0.7523151E-01   -52    51   -21    25   -31    22 u=027  imp:n=1
02599  20  0.7523151E-01   -52    51   -26    18   -31    22 u=027  imp:n=1
02600  21  0.6542969E-01   -53    51   -25    26   -31    22 u=027  imp:n=1
02601  21  0.6542969E-01   -52    54   -25    26   -31    22 u=027  imp:n=1
02602  22  0.4487471E-01   -54    53   -25    26   -31    22 u=027  imp:n=1
02603  19  0.7776510E-01   -52    51   -21    18   -35    32 u=027  imp:n=1
02604  19  0.7776510E-01   -52    51   -21    18   -37    36 u=027  imp:n=1
02605  20  0.7523151E-01   -52    51   -21    25   -36    35 u=027  imp:n=1
02606  20  0.7523151E-01   -52    51   -26    18   -36    35 u=027  imp:n=1
02607  21  0.6542969E-01   -53    51   -25    26   -36    35 u=027  imp:n=1
02608  21  0.6542969E-01   -52    54   -25    26   -36    35 u=027  imp:n=1
02609  22  0.4487471E-01   -54    53   -25    26   -36    35 u=027  imp:n=1
02610  15  0.8003452E-01   -56    55   -21    18   -22    15 u=027  imp:n=1
02611  15  0.8003452E-01   -56    55   -21    18   -24    23 u=027  imp:n=1
02612  16  0.7744373E-01   -56    55   -21    25   -23    22 u=027  imp:n=1
02613  16  0.7744373E-01   -56    55   -26    18   -23    22 u=027  imp:n=1
02614  17  0.6733980E-01   -57    55   -25    26   -23    22 u=027  imp:n=1
02615  17  0.6733980E-01   -56    58   -25    26   -23    22 u=027  imp:n=1
02616  18  0.4487970E-01   -58    57   -25    26   -23    22 u=027  imp:n=1
02617  11  0.7961518E-01   -60    59   -21    18   -22    15 u=027  imp:n=1
02618  11  0.7961518E-01   -60    59   -21    18   -32    31 u=027  imp:n=1
02619  12  0.7714468E-01   -60    59   -21    25   -31    22 u=027  imp:n=1
02620  12  0.7714468E-01   -60    59   -26    18   -31    22 u=027  imp:n=1
02621  13  0.6712964E-01   -61    59   -25    26   -31    22 u=027  imp:n=1
02622  13  0.6712964E-01   -60    62   -25    26   -31    22 u=027  imp:n=1
02623  14  0.4579853E-01   -62    61   -25    26   -31    22 u=027  imp:n=1
02624  11  0.7961518E-01   -60    59   -21    18   -35    32 u=027  imp:n=1
02625  11  0.7961518E-01   -60    59   -21    18   -37    36 u=027  imp:n=1
02626  12  0.7714468E-01   -60    59   -21    25   -36    35 u=027  imp:n=1
02627  12  0.7714468E-01   -60    59   -26    18   -36    35 u=027  imp:n=1
02628  13  0.6712964E-01   -61    59   -25    26   -36    35 u=027  imp:n=1
02629  13  0.6712964E-01   -60    62   -25    26   -36    35 u=027  imp:n=1
02630  14  0.4579853E-01   -62    61   -25    26   -36    35 u=027  imp:n=1
02631   7  0.8235419E-01   -19    63   -21    18   -22    15 u=027  imp:n=1
02632   7  0.8235419E-01   -19    63   -21    18   -24    23 u=027  imp:n=1
02633   8  0.7986135E-01   -19    63   -21    25   -23    22 u=027  imp:n=1
02634   8  0.7986135E-01   -19    63   -26    18   -23    22 u=027  imp:n=1
02635   9  0.6943934E-01   -64    63   -25    26   -23    22 u=027  imp:n=1
02636   9  0.6943934E-01   -19    65   -25    26   -23    22 u=027  imp:n=1
02637  10  0.4603587E-01   -65    64   -25    26   -23    22 u=027  imp:n=1
02638  25  0.1201037E+00   -66    17   -48    18   -67    24 u=027  imp:n=1
02639  26  0.7164290E-01   -29    20   -48    18   -68    15 u=027  imp:n=1
02640  27  0.1212447E+00   -69    29   -48    18   -70    37 u=027  imp:n=1
02641  28  0.1187656E+00   -38    30   -48    18   -49    15 u=027  imp:n=1
02642  29  0.1183522E+00   -71    69   -48    18   -70    37 u=027  imp:n=1
```

```
02643  30  0.5464445E-01   -42    39   -48    18   -49    15 u=027  imp:n=1
02644  26  0.7164290E-01   -46    71   -48    18   -68    15 u=027  imp:n=1
02645  26  0.7164290E-01   -51    47   -48    18   -68    15 u=027  imp:n=1
02646  29  0.1183522E+00   -72    51   -48    18   -70    37 u=027  imp:n=1
02647  30  0.5464445E-01   -55    52   -48    18   -49    15 u=027  imp:n=1
02648  27  0.1212447E+00   -73    72   -48    18   -70    37 u=027  imp:n=1
02649  28  0.1187656E+00   -59    56   -48    18   -49    15 u=027  imp:n=1
02650  26  0.7164290E-01   -63    73   -48    18   -68    15 u=027  imp:n=1
02651  25  0.1201037E+00   -74    63   -48    18   -67    24 u=027  imp:n=1
02652  31  0.2714513E-01   -75    17   -48    18   -76    70 u=027  imp:n=1
02653  32  0.8823003E-01   -75    17   -48    18   -77    76 u=027  imp:n=1
02654  33  0.8829426E-01   -78    17   -48    18   -79    77 u=027  imp:n=1
02655  33  0.8829426E-01   -75    80   -48    18   -79    77 u=027  imp:n=1
02656   0                  -12     9   -14     4   -11     6 u=027 imp:n=1
02657   0                  -10    13   -14     4   -11     6 u=027 imp:n=1
02658   0                  -10     9    -7    14   -11     5 u=027 imp:n=1
02659   0                  -29    20   -25    48   -24    22 u=027 imp:n=1
02660   0                  -38    30   -25    48   -49    22 u=027 imp:n=1
02661   0                  -42    39   -25    48   -49    22 u=027 imp:n=1
02662   0                  -71    43   -48    18   -31     6 u=027 imp:n=1
02663   0                  -73    60   -48    18   -31     6 u=027 imp:n=1
02664   0                  -63    60   -21    48   -22    15 u=027 imp:n=1
02665   0                  -59    56   -21    48   -22    15 u=027 imp:n=1
02666   0                  -51    43   -25    48   -36    22 u=027 imp:n=1
02667   0                  -55    52   -25    48   -24    22 u=027 imp:n=1
02668   0                  -59    56   -25    48   -24    22 u=027 imp:n=1
02669   0                  -63    60   -25    48   -24    22 u=027 imp:n=1
02670   0                  -55    52   -21    48   -22    15 u=027 imp:n=1
02671   0                  -51    43   -21    48   -22    15 u=027 imp:n=1
02672   0                  -73    60   -48    18   -22    15 u=027 imp:n=1
02673   0                  -38    30   -25    18   -23    49 u=027 imp:n=1
02674   0                  -71    43   -48    18   -22    15 u=027 imp:n=1
02675   0                  -42    39   -25    18   -23    49 u=027 imp:n=1
02676   0                  -42    39   -21    48   -22    15 u=027 imp:n=1
02677   0                  -71    43   -48    26  -158    35 u=027 imp:n=1
02678   0                  -73    60   -48    26  -158    35 u=027 imp:n=1
02679   0                  -38    30   -21    48   -22    15 u=027 imp:n=1
02680   0                  -29    20   -21    48   -22    15 u=027 imp:n=1
02681   0                  -73    60   -48    18    -6    22 u=027 imp:n=1
02682   0                  -71    43   -48    18    -6    22 u=027 imp:n=1
02683   0                  -10    13   -14     4    -6     5 u=027 imp:n=1
02684   0                  -12     9   -14     4    -6     5 u=027 imp:n=1
02685   0                  -73    60   -48    18   -24    23 u=027 imp:n=1
02686   0                  -59    56   -48    18   -24    23 u=027 imp:n=1
02687   0                  -55    52   -48    18   -24    23 u=027 imp:n=1
02688   0                  -71    43   -48    18   -24    23 u=027 imp:n=1
02689   0                  -42    39   -25    18   -24    23 u=027 imp:n=1
02690   0                  -71    43   -48    18   -23    49 u=027 imp:n=1
02691   0                  -55    52   -48    18   -23    49 u=027 imp:n=1
02692   0                  -59    56   -48    18   -23    49 u=027 imp:n=1
02693   0                  -73    60   -48    18   -23    49 u=027 imp:n=1
02694   0                  -71    43  -342    18   -49   158 u=027 imp:n=1
02695   0                  -47    46  -341    18   -49   158 u=027 imp:n=1
02696   0                  -73    60  -342    18   -49   158 u=027 imp:n=1
02697   0                  -71    43   -48   342   -49   158 u=027 imp:n=1
02698   0                  -73    60   -48   342   -49   158 u=027 imp:n=1
02699   0                  -38    30   -25    18   -24    23 u=027 imp:n=1
02700   0                  -59    52   -21    18   -37    36 u=027 imp:n=1
02701   0                  -51    43   -21    48   -37    36 u=027 imp:n=1
02702   0                  -51    47   -48    18   -50    68 u=027 imp:n=1
02703   0                  -46    71   -48    18   -50    68 u=027 imp:n=1
02704   0                  -63    73   -48    18   -67    68 u=027 imp:n=1
02705   0                  -29    66   -48    18   -67    68 u=027 imp:n=1
02706   0                  -19    73   -48    18   -70    67 u=027 imp:n=1
02707   0                  -51    71   -48    18   -70    50 u=027 imp:n=1
02708   0                  -29    17   -48    18   -70    67 u=027 imp:n=1
02709   0                  -19    75   -48    18   -79    70 u=027 imp:n=1
02710   0                  -80    78   -48    18   -79    77 u=027 imp:n=1
02711   0                  -19    17   -14    48   -79    37 u=027 imp:n=1
02712   0                  -19    17   -14    18   -16    79 u=027 imp:n=1
02713   0                  -19    74   -48    18   -67    24 u=027 imp:n=1
02714   0                  -73    60   -48    18   -37    24 u=027 imp:n=1
02715   0                  -71    43   -48    18   -37    24 u=027 imp:n=1
02716   0                  -19    60   -21    48   -37    24 u=027 imp:n=1
02717   0                  -59    52   -21    18   -36    24 u=027 imp:n=1
02718   0                  -42    30   -21    18   -37    24 u=027 imp:n=1
```

```
02719   0                    -20    66   -48    18   -68    24 u=027 imp:n=1
02720   0                    -71    43   -48    18   -35    32 u=027 imp:n=1
02721   0                    -73    60   -48    18   -35    32 u=027 imp:n=1
02722   0                    -29    17   -21    48   -37    24 u=027 imp:n=1
02723   0                    -63    60   -21    25   -24    22 u=027 imp:n=1
02724   0                    -59    56   -21    25   -24    22 u=027 imp:n=1
02725   0                    -55    52   -21    25   -24    22 u=027 imp:n=1
02726   0                    -51    43   -21    25   -36    22 u=027 imp:n=1
02727   0                    -42    39   -21    25   -24    22 u=027 imp:n=1
02728   0                    -38    30   -21    25   -24    22 u=027 imp:n=1
02729   0                    -29    20   -21    25   -24    22 u=027 imp:n=1
02730   0                    -19    17   -14    21   -37    15 u=027 imp:n=1
02731   0                    -73    60   -26    18  -158    35 u=027 imp:n=1
02732   0                    -71    43   -26    18  -158    35 u=027 imp:n=1
02733   0                    -71    43   -48    18   -32    31 u=027 imp:n=1
02734   0                    -73    60   -48    18   -32    31 u=027 imp:n=1
02735   3  0.8540120E-01      -2     1    -4     3   -81    11 u=027  imp:n=1
02736   3  0.8540120E-01      -2     1    -8     7   -81    11 u=027  imp:n=1
02737   3  0.8540120E-01      -9     1    -7     4   -81    11 u=027  imp:n=1
02738   3  0.8540120E-01      -2    10    -7     4   -81    11 u=027  imp:n=1
02739  34  0.1035093E+00     -82     9   -83     4   -85    84 u=027  imp:n=1
02740   0                    -10     9    -7     4   -84    11 u=027 imp:n=1
02741   0                    -10     9    -7     4   -81    85 u=027 imp:n=1
02742   0                    -10     9    -7    83   -85    84 u=027 imp:n=1
02743   0                    -10    82   -83     4   -85    84 u=027 imp:n=1
02744   1  0.3030146E-01      -2     1    -4     3    -6     5 u=028  imp:n=1
02745   1  0.3030146E-01      -2     1    -8     7    -6     5 u=028  imp:n=1
02746   2  0.7570860E-01      -9     1    -7     4    -6     5 u=028  imp:n=1
02747   2  0.7570860E-01      -2    10    -7     4    -6     5 u=028  imp:n=1
02748   3  0.8540120E-01      -2     1    -4     3   -11     6 u=028  imp:n=1
02749   3  0.8540120E-01      -2     1    -8     7   -11     6 u=028  imp:n=1
02750   3  0.8540120E-01      -9     1    -7     4   -11     6 u=028  imp:n=1
02751   3  0.8540120E-01      -2    10    -7     4   -11     6 u=028  imp:n=1
02752   4  0.7332760E-01     -13    12   -14     4   -15     5 u=028  imp:n=1
02753   5  0.3966184E-01     -13    12   -14     4   -11    16 u=028  imp:n=1
02754   6  0.3747366E-01     -17    12   -14    18   -16    15 u=028  imp:n=1
02755   6  0.3747366E-01     -13    19   -14    18   -16    15 u=028  imp:n=1
02756   6  0.3747366E-01     -13    12   -18     4   -16    15 u=028  imp:n=1
02757   7  0.8235419E-01    -417   416   -21    18   -22    15 u=028  imp:n=1
02758   7  0.8235419E-01    -417   416   -21    18   -24    23 u=028  imp:n=1
02759   8  0.7986135E-01    -417   416   -21    25   -23    22 u=028  imp:n=1
02760   8  0.7986135E-01    -417   416   -26    18   -23    22 u=028  imp:n=1
02761   9  0.6943934E-01    -418   416   -25    26   -23    22 u=028  imp:n=1
02762   9  0.6943934E-01    -417   419   -25    26   -23    22 u=028  imp:n=1
02763  10  0.4603587E-01    -419   418   -25    26   -23    22 u=028  imp:n=1
02764  25  0.1201037E+00    -420   416   -48    18   -67    24 u=028  imp:n=1
02765  26  0.7164290E-01    -421   417   -48    18   -68    15 u=028  imp:n=1
02766  27  0.1212447E+00    -422   421   -48    18   -67    24 u=028  imp:n=1
02767   7  0.8235419E-01    -423   421   -21    18   -22    15 u=028  imp:n=1
02768   7  0.8235419E-01    -423   421   -21    18   -24    23 u=028  imp:n=1
02769   8  0.7986135E-01    -423   421   -21    25   -23    22 u=028  imp:n=1
02770   8  0.7986135E-01    -423   421   -26    18   -23    22 u=028  imp:n=1
02771   9  0.6943934E-01    -424   421   -25    26   -23    22 u=028  imp:n=1
02772   9  0.6943934E-01    -423   425   -25    26   -23    22 u=028  imp:n=1
02773  10  0.4603587E-01    -425   424   -25    26   -23    22 u=028  imp:n=1
02774   7  0.8235419E-01    -427   426   -21    18   -22    15 u=028  imp:n=1
02775   7  0.8235419E-01    -427   426   -21    18   -24    23 u=028  imp:n=1
02776   8  0.7986135E-01    -427   426   -21    25   -23    22 u=028  imp:n=1
02777   8  0.7986135E-01    -427   426   -26    18   -23    22 u=028  imp:n=1
02778   9  0.6943934E-01    -428   426   -25    26   -23    22 u=028  imp:n=1
02779   9  0.6943934E-01    -427   429   -25    26   -23    22 u=028  imp:n=1
02780  10  0.4603587E-01    -429   428   -25    26   -23    22 u=028  imp:n=1
02781  36  0.6435380E-01    -431   430   -48    18  -158    15 u=028  imp:n=1
02782  37  0.6435380E-01    -431   430   -48    18   -49   158 u=028  imp:n=1
02783  38  0.8323048E-01    -432   422   -48    18  -162   161 u=028  imp:n=1
02784  85  0.1187737E+00    -434   433   -48    18   -50    49 u=028  imp:n=1
02785  86  0.8236775E-01    -435   434   -48    18  -436    49 u=028  imp:n=1
02786  87  0.2195034E-01    -435   434   -48    18   -50   437 u=028  imp:n=1
02787  88  0.7077679E-01    -435   434   -48   251  -437   436 u=028  imp:n=1
02788  88  0.7077679E-01    -435   434  -252    18  -437   436 u=028  imp:n=1
02789  89  0.6625060E-01    -438   434  -251   252  -437   436 u=028  imp:n=1
02790  89  0.6625060E-01    -435   439  -251   252  -437   436 u=028  imp:n=1
02791   0                   -439   438  -251   252  -437   436 u=028 imp:n=1
02792  40  0.5178530E-01    -440   435   -48    18  -162   166 u=028  imp:n=1
02793  48  0.1333519E+00    -441   440   -48    18   -49   158 u=028  imp:n=1
02794  24  0.1232187E+00    -441   440   -48    18   -50    49 u=028  imp:n=1
```

```
02795  28  0.1187656E+00  -426   423   -48    18  -242    15 u=028  imp:n=1
02796  28  0.1187656E+00  -426   423   -48    18   -49   242 u=028  imp:n=1
02797  41  0.5279270E-01  -442   431   -48    18  -161    15 u=028  imp:n=1
02798  42  0.5392130E-01  -433   432   -48    18  -162   161 u=028  imp:n=1
02799  23  0.1232400E+00  -443   442   -48    18  -242    15 u=028  imp:n=1
02800  23  0.1232400E+00  -443   442   -48    18   -49   242 u=028  imp:n=1
02801  28  0.1187656E+00  -444   443   -48    18  -242    15 u=028  imp:n=1
02802  28  0.1187656E+00  -444   443   -48    18   -49   242 u=028  imp:n=1
02803  23  0.1232400E+00  -445   444   -48    18  -242    15 u=028  imp:n=1
02804  23  0.1232400E+00  -445   444   -48    18   -49   242 u=028  imp:n=1
02805  41  0.5279270E-01  -440   435   -48    18  -161    15 u=028  imp:n=1
02806  42  0.5392130E-01  -440   435   -48    18  -166   161 u=028  imp:n=1
02807  49  0.1333121E+00  -441   440   -48    18  -221    15 u=028  imp:n=1
02808  49  0.1333121E+00  -441   440   -48    18  -158   221 u=028  imp:n=1
02809  31  0.2714513E-01   -75    17   -48    18  -169   162 u=028  imp:n=1
02810  32  0.8823003E-01   -75    17   -48    18  -170   169 u=028  imp:n=1
02811  33  0.8829426E-01   -78    17   -48    18  -171   170 u=028  imp:n=1
02812  33  0.8829426E-01   -75    80   -48    18  -171   170 u=028  imp:n=1
02813   0                  -12     9   -14     4   -11     6 u=028 imp:n=1
02814   0                  -10    13   -14     4   -11     6 u=028 imp:n=1
02815   0                  -10     9    -7    14   -11     5 u=028 imp:n=1
02816   0                 -416    17   -21    18   -24     6 u=028 imp:n=1
02817   0                 -421   417   -21    48   -24     6 u=028 imp:n=1
02818   0                 -426   423   -21    48   -24     6 u=028 imp:n=1
02819   0                  -19   427   -21    48   -24     6 u=028 imp:n=1
02820   0                 -426   423   -48    18   -24    49 u=028 imp:n=1
02821   0                 -431   427   -48    18   -24    49 u=028 imp:n=1
02822   0                 -433   442   -48    18  -161    49 u=028 imp:n=1
02823   0                  -19   441   -48    26   -23    22 u=028 imp:n=1
02824   0                  -19   441   -48    18   -22    15 u=028 imp:n=1
02825   0                 -435   445   -48    18   -22    15 u=028 imp:n=1
02826   0                 -430   427   -48    18   -22    15 u=028 imp:n=1
02827   0                 -430   427   -48    26   -49    22 u=028 imp:n=1
02828   0                 -435   445   -48    26   -49    22 u=028 imp:n=1
02829   0                  -19   427   -21    48    -6    15 u=028 imp:n=1
02830   0                 -426   423   -21    48    -6    15 u=028 imp:n=1
02831   0                 -421   417   -21    48    -6    15 u=028 imp:n=1
02832   0                 -416    17   -21    18    -6    15 u=028 imp:n=1
02833   0                  -10    13   -14     4    -6     5 u=028 imp:n=1
02834   0                  -12     9   -14     4    -6     5 u=028 imp:n=1
02835   0                 -431   422   -48    18  -161    24 u=028 imp:n=1
02836   0                 -417   420   -48    18   -68    24 u=028 imp:n=1
02837   0                  -19   441   -48    18   -50   437 u=028 imp:n=1
02838   0                  -19   441   -48   251  -437    23 u=028 imp:n=1
02839   0                  -19   441   -26    18   -23    22 u=028 imp:n=1
02840   0                  -19   441  -252    18  -437    23 u=028 imp:n=1
02841   0                 -430   427   -26    18   -49    22 u=028 imp:n=1
02842   0                 -435   445   -26    18   -49    22 u=028 imp:n=1
02843   0                  -19   441  -251   252  -437    23 u=028 imp:n=1
02844   0                 -421   420   -48    18   -67    68 u=028 imp:n=1
02845   0                 -416    17   -48    18   -67    24 u=028 imp:n=1
02846   0                  -19   440   -48    18  -162    50 u=028 imp:n=1
02847   0                 -435   433   -48    18  -162    50 u=028 imp:n=1
02848   0                 -422    17   -48    18  -162    67 u=028 imp:n=1
02849   0                  -19    75   -48    18  -171   162 u=028 imp:n=1
02850   0                  -19    17   -14    21   -24    15 u=028 imp:n=1
02851   0                  -80    78   -48    18  -171   170 u=028 imp:n=1
02852   0                  -19    17   -14    48  -171    24 u=028 imp:n=1
02853   0                  -19    17   -14    18   -16   171 u=028 imp:n=1
02854   3  0.8540120E-01    -2     1    -4     3   -81    11 u=028  imp:n=1
02855   3  0.8540120E-01    -2     1    -8     7   -81    11 u=028  imp:n=1
02856   3  0.8540120E-01    -9     1    -7     4   -81    11 u=028  imp:n=1
02857   3  0.8540120E-01    -2    10    -7     4   -81    11 u=028  imp:n=1
02858  34  0.1035093E+00   -82     9   -83     4   -85    84 u=028  imp:n=1
02859   0                  -10     9    -7     4   -84    11 u=028 imp:n=1
02860   0                  -10     9    -7     4   -81    85 u=028 imp:n=1
02861   0                  -10     9    -7    83   -85    84 u=028 imp:n=1
02862   0                  -10    82   -83     4   -85    84 u=028 imp:n=1
02863   1  0.3030146E-01    -2     1    -4     3    -6     5 u=029  imp:n=1
02864   1  0.3030146E-01    -2     1    -8     7    -6     5 u=029  imp:n=1
02865   2  0.7570860E-01    -9     1    -7     4    -6     5 u=029  imp:n=1
02866   2  0.7570860E-01    -2    10    -7     4    -6     5 u=029  imp:n=1
02867   3  0.8540120E-01    -2     1    -4     3   -11     6 u=029  imp:n=1
02868   3  0.8540120E-01    -2     1    -8     7   -11     6 u=029  imp:n=1
02869   3  0.8540120E-01    -9     1    -7     4   -11     6 u=029  imp:n=1
02870   3  0.8540120E-01    -2    10    -7     4   -11     6 u=029  imp:n=1
```

```
02871   4  0.7332760E-01   -13    12   -14     4   -15     5 u=029  imp:n=1
02872   5  0.3966184E-01   -13    12   -14     4   -11    16 u=029  imp:n=1
02873   6  0.3747366E-01   -17    12   -14    18   -16    15 u=029  imp:n=1
02874   6  0.3747366E-01   -13    19   -14    18   -16    15 u=029  imp:n=1
02875   6  0.3747366E-01   -13    12   -18     4   -16    15 u=029  imp:n=1
02876  48  0.1333519E+00  -446   416   -48    18   -49   158 u=029  imp:n=1
02877  24  0.1232187E+00  -446   416   -48    18   -50    49 u=029  imp:n=1
02878  40  0.5178530E-01  -447   446   -48    18  -162   166 u=029  imp:n=1
02879  86  0.8236775E-01  -448   447   -48    18  -436    49 u=029  imp:n=1
02880  87  0.2195034E-01  -448   447   -48    18   -50   437 u=029  imp:n=1
02881  88  0.7077679E-01  -448   447   -48   251  -437   436 u=029  imp:n=1
02882  88  0.7077679E-01  -448   447  -252    18  -437   436 u=029  imp:n=1
02883  89  0.6625060E-01  -449   447  -251   252  -437   436 u=029  imp:n=1
02884  89  0.6625060E-01  -448   450  -251   252  -437   436 u=029  imp:n=1
02885   0                 -450   449  -251   252  -437   436 u=029 imp:n=1
02886  85  0.1187737E+00  -451   448   -48    18   -50    49 u=029  imp:n=1
02887  36  0.6435380E-01  -453   452   -48    18  -158    15 u=029  imp:n=1
02888  37  0.6435380E-01  -453   452   -48    18   -49   158 u=029  imp:n=1
02889  38  0.8323048E-01  -453   452   -48    18  -162   161 u=029  imp:n=1
02890   7  0.8235419E-01  -454   453   -21    18   -22    15 u=029  imp:n=1
02891   7  0.8235419E-01  -454   453   -21    18   -24    23 u=029  imp:n=1
02892   8  0.7986135E-01  -454   453   -21    25   -23    22 u=029  imp:n=1
02893   8  0.7986135E-01  -454   453   -26    18   -23    22 u=029  imp:n=1
02894   9  0.6943934E-01  -455   453   -25    26   -23    22 u=029  imp:n=1
02895   9  0.6943934E-01  -454   456   -25    26   -23    22 u=029  imp:n=1
02896  10  0.4603587E-01  -456   455   -25    26   -23    22 u=029  imp:n=1
02897  27  0.1212447E+00  -457   453   -48    18   -67    24 u=029  imp:n=1
02898   7  0.8235419E-01  -459   458   -21    18   -22    15 u=029  imp:n=1
02899   7  0.8235419E-01  -459   458   -21    18   -24    23 u=029  imp:n=1
02900   8  0.7986135E-01  -459   458   -21    25   -23    22 u=029  imp:n=1
02901   8  0.7986135E-01  -459   458   -26    18   -23    22 u=029  imp:n=1
02902   9  0.6943934E-01  -460   458   -25    26   -23    22 u=029  imp:n=1
02903   9  0.6943934E-01  -459   461   -25    26   -23    22 u=029  imp:n=1
02904  10  0.4603587E-01  -461   460   -25    26   -23    22 u=029  imp:n=1
02905  26  0.7164290E-01  -462   457   -48    18   -68    15 u=029  imp:n=1
02906   7  0.8235419E-01  -441   462   -21    18   -22    15 u=029  imp:n=1
02907   7  0.8235419E-01  -441   462   -21    18   -24    23 u=029  imp:n=1
02908   8  0.7986135E-01  -441   462   -21    25   -23    22 u=029  imp:n=1
02909   8  0.7986135E-01  -441   462   -26    18   -23    22 u=029  imp:n=1
02910   9  0.6943934E-01  -463   462   -25    26   -23    22 u=029  imp:n=1
02911   9  0.6943934E-01  -441   464   -25    26   -23    22 u=029  imp:n=1
02912  10  0.4603587E-01  -464   463   -25    26   -23    22 u=029  imp:n=1
02913  25  0.1201037E+00  -465   462   -48    18   -67    24 u=029  imp:n=1
02914  49  0.1333121E+00  -446   416   -48    18  -221    15 u=029  imp:n=1
02915  49  0.1333121E+00  -446   416   -48    18  -158   221 u=029  imp:n=1
02916  41  0.5279270E-01  -447   446   -48    18  -161    15 u=029  imp:n=1
02917  42  0.5392130E-01  -447   446   -48    18  -166   161 u=029  imp:n=1
02918  23  0.1232400E+00  -466   447   -48    18  -242    15 u=029  imp:n=1
02919  23  0.1232400E+00  -466   447   -48    18   -49   242 u=029  imp:n=1
02920  28  0.1187656E+00  -467   466   -48    18  -242    15 u=029  imp:n=1
02921  28  0.1187656E+00  -467   466   -48    18   -49   242 u=029  imp:n=1
02922  23  0.1232400E+00  -451   467   -48    18  -242    15 u=029  imp:n=1
02923  23  0.1232400E+00  -451   467   -48    18   -49   242 u=029  imp:n=1
02924  41  0.5279270E-01  -452   451   -48    18  -161    15 u=029  imp:n=1
02925  42  0.5392130E-01  -452   451   -48    18  -162   161 u=029  imp:n=1
02926  28  0.1187656E+00  -458   454   -48    18  -242    15 u=029  imp:n=1
02927  28  0.1187656E+00  -458   454   -48    18   -49   242 u=029  imp:n=1
02928  31  0.2714513E-01   -75    17   -48    18  -169   162 u=029  imp:n=1
02929  32  0.8823003E-01   -75    17   -48    18  -170   169 u=029  imp:n=1
02930  33  0.8829426E-01   -78    17   -48    18  -171   170 u=029  imp:n=1
02931  33  0.8829426E-01   -75    80   -48    18  -171   170 u=029  imp:n=1
02932   0                  -12     9   -14     4   -11     6 u=029 imp:n=1
02933   0                  -10    13   -14     4   -11     6 u=029 imp:n=1
02934   0                  -10     9    -7    14   -11     5 u=029 imp:n=1
02935   0                 -453    17   -21    48  -158     6 u=029 imp:n=1
02936   0                 -458   454   -21    48  -158     6 u=029 imp:n=1
02937   0                 -462   459   -21    48  -158     6 u=029 imp:n=1
02938   0                  -19   441   -21    18  -158     6 u=029 imp:n=1
02939   0                  -19    17   -14    21   -24    15 u=029 imp:n=1
02940   0                  -19   441   -48    18    -6    15 u=029 imp:n=1
02941   0                 -457   459   -48    18    -6    15 u=029 imp:n=1
02942   0                  -19   441   -21    48    -6    15 u=029 imp:n=1
02943   0                 -462   459   -21    48    -6    15 u=029 imp:n=1
02944   0                 -416    17   -48    18   -50    15 u=029 imp:n=1
02945   0                 -458   454   -21    48    -6    15 u=029 imp:n=1
02946   0                 -457   459   -48    18  -158     6 u=029 imp:n=1
```

```
02947   0                -453    17   -21    48    -6    15 u=029 imp:n=1
02948   0                 -10    13   -14     4    -6     5 u=029 imp:n=1
02949   0                 -12     9   -14     4    -6     5 u=029 imp:n=1
02950   0                 -19    17   -14    18   -16   171 u=029 imp:n=1
02951   0                 -19    17   -14    48  -171    24 u=029 imp:n=1
02952   0                 -80    78   -48    18  -171   170 u=029 imp:n=1
02953   0                 -19    75   -48    18  -171   162 u=029 imp:n=1
02954   0                -457   459   -48    18   -49   158 u=029 imp:n=1
02955   0                 -19   441   -21    18   -49   158 u=029 imp:n=1
02956   0                -462   459   -21    48   -49   158 u=029 imp:n=1
02957   0                -458   454   -21    48   -49   158 u=029 imp:n=1
02958   0                -446    17   -48    18  -162    50 u=029 imp:n=1
02959   0                -451   447   -48    18  -162    50 u=029 imp:n=1
02960   0                 -19   453   -48    18  -162    67 u=029 imp:n=1
02961   0                -462   457   -48    18   -67   437 u=029 imp:n=1
02962   0                 -19   465   -48    18   -67   437 u=029 imp:n=1
02963   0                -453    17   -21    48   -24    49 u=029 imp:n=1
02964   0                -458   454   -21    48   -24    49 u=029 imp:n=1
02965   0                -462   459   -21    48   -24    49 u=029 imp:n=1
02966   0                 -19   441   -21    48   -24    49 u=029 imp:n=1
02967   0                -453    17   -21    48   -49   158 u=029 imp:n=1
02968   0                -462   457   -48    18  -437   166 u=029 imp:n=1
02969   0                 -19   441   -48    18  -436    49 u=029 imp:n=1
02970   0                -457   459   -48    18  -436    49 u=029 imp:n=1
02971   0                -458   454   -48    18  -436    49 u=029 imp:n=1
02972   0                -453   452   -48    18  -436    49 u=029 imp:n=1
02973   0                 -19   465   -48   251  -437    24 u=029 imp:n=1
02974   0                 -19   441   -48   251   -24   436 u=029 imp:n=1
02975   0                -457   459   -48   251   -24   436 u=029 imp:n=1
02976   0                -458   454   -48   251   -24   436 u=029 imp:n=1
02977   0                -453   452   -48   251  -161   436 u=029 imp:n=1
02978   0                 -19   465  -252    18  -437    24 u=029 imp:n=1
02979   0                -453   452  -251   252  -161   436 u=029 imp:n=1
02980   0                -458   454  -251   252   -24   436 u=029 imp:n=1
02981   0                -457   459  -251   252   -24   436 u=029 imp:n=1
02982   0                 -19   441  -251   252   -24   436 u=029 imp:n=1
02983   0                 -19   441  -252    18   -24   436 u=029 imp:n=1
02984   0                 -19   465  -251   252  -437    24 u=029 imp:n=1
02985   0                -457   459  -252    18   -24   436 u=029 imp:n=1
02986   0                -458   454  -252    18   -24   436 u=029 imp:n=1
02987   0                -453   452  -252    18  -161   436 u=029 imp:n=1
02988   0                -462   457   -48    18  -166    68 u=029 imp:n=1
02989   3  0.8540120E-01    -2     1    -4     3   -81    11 u=029  imp:n=1
02990   3  0.8540120E-01    -2     1    -8     7   -81    11 u=029  imp:n=1
02991   3  0.8540120E-01    -9     1    -7     4   -81    11 u=029  imp:n=1
02992   3  0.8540120E-01    -2    10    -7     4   -81    11 u=029  imp:n=1
02993  34  0.1035093E+00   -82     9   -83     4   -85    84 u=029  imp:n=1
02994   0                  -10     9    -7     4   -84    11 u=029 imp:n=1
02995   0                  -10     9    -7     4   -81    85 u=029 imp:n=1
02996   0                  -10     9    -7    83   -85    84 u=029 imp:n=1
02997   0                  -10    82   -83     4   -85    84 u=029 imp:n=1
02998   1  0.3030146E-01    -2     1    -4     3    -6     5 u=030  imp:n=1
02999   1  0.3030146E-01    -2     1    -8     7    -6     5 u=030  imp:n=1
03000   2  0.7570860E-01    -9     1    -7     4    -6     5 u=030  imp:n=1
03001   2  0.7570860E-01    -2    10    -7     4    -6     5 u=030  imp:n=1
03002   3  0.8540120E-01    -2     1    -4     3   -11     6 u=030  imp:n=1
03003   3  0.8540120E-01    -2     1    -8     7   -11     6 u=030  imp:n=1
03004   3  0.8540120E-01    -9     1    -7     4   -11     6 u=030  imp:n=1
03005   3  0.8540120E-01    -2    10    -7     4   -11     6 u=030  imp:n=1
03006   4  0.7332760E-01   -13    12   -14     4   -15     5 u=030  imp:n=1
03007   5  0.3966184E-01   -13    12   -14     4   -11    16 u=030  imp:n=1
03008   6  0.3747366E-01   -17    12   -14    18   -16    15 u=030  imp:n=1
03009   6  0.3747366E-01   -13    19   -14    18   -16    15 u=030  imp:n=1
03010   6  0.3747366E-01   -13    12   -18     4   -16    15 u=030  imp:n=1
03011   7  0.8235419E-01  -417   416   -21    18   -22    15 u=030  imp:n=1
03012   7  0.8235419E-01  -417   416   -21    18   -24    23 u=030  imp:n=1
03013   8  0.7986135E-01  -417   416   -21    25   -23    22 u=030  imp:n=1
03014   8  0.7986135E-01  -417   416   -26    18   -23    22 u=030  imp:n=1
03015   9  0.6943934E-01  -418   416   -25    26   -23    22 u=030  imp:n=1
03016   9  0.6943934E-01  -417   419   -25    26   -23    22 u=030  imp:n=1
03017  10  0.4603587E-01  -419   418   -25    26   -23    22 u=030  imp:n=1
03018  25  0.1201037E+00  -420   416   -48    18   -67    24 u=030  imp:n=1
03019  26  0.7164290E-01  -421   417   -48    18   -68    15 u=030  imp:n=1
03020  27  0.1212447E+00  -422   421   -48    18   -67    24 u=030  imp:n=1
03021   7  0.8235419E-01  -423   421   -21    18   -22    15 u=030  imp:n=1
03022   7  0.8235419E-01  -423   421   -21    18   -24    23 u=030  imp:n=1
```

```
03023   8  0.7986135E-01  -423   421   -21    25   -23    22 u=030  imp:n=1
03024   8  0.7986135E-01  -423   421   -26    18   -23    22 u=030  imp:n=1
03025   9  0.6943934E-01  -424   421   -25    26   -23    22 u=030  imp:n=1
03026   9  0.6943934E-01  -423   425   -25    26   -23    22 u=030  imp:n=1
03027  10  0.4603587E-01  -425   424   -25    26   -23    22 u=030  imp:n=1
03028   7  0.8235419E-01  -427   426   -21    18   -22    15 u=030  imp:n=1
03029   7  0.8235419E-01  -427   426   -21    18   -24    23 u=030  imp:n=1
03030   8  0.7986135E-01  -427   426   -21    25   -23    22 u=030  imp:n=1
03031   8  0.7986135E-01  -427   426   -26    18   -23    22 u=030  imp:n=1
03032   9  0.6943934E-01  -428   426   -25    26   -23    22 u=030  imp:n=1
03033   9  0.6943934E-01  -427   429   -25    26   -23    22 u=030  imp:n=1
03034  10  0.4603587E-01  -429   428   -25    26   -23    22 u=030  imp:n=1
03035  36  0.6435380E-01  -468   446   -48    18  -158    15 u=030  imp:n=1
03036  37  0.6435380E-01  -468   446   -48    18   -49   158 u=030  imp:n=1
03037  38  0.8323048E-01  -432   422   -48    18  -162   161 u=030  imp:n=1
03038  86  0.8236775E-01  -469   466   -48    18  -356    15 u=030  imp:n=1
03039  87  0.2195034E-01  -469   466   -48    18  -158   357 u=030  imp:n=1
03040  88  0.7077679E-01  -469   466   -48   251  -357   356 u=030  imp:n=1
03041  88  0.7077679E-01  -469   466  -252    18  -357   356 u=030  imp:n=1
03042  89  0.6625060E-01  -470   466  -251   252  -357   356 u=030  imp:n=1
03043  89  0.6625060E-01  -469   471  -251   252  -357   356 u=030  imp:n=1
03044   0                 -471   470  -251   252  -357   356 u=030 imp:n=1
03045  85  0.1187737E+00  -473   472   -48    18   -50    49 u=030  imp:n=1
03046  40  0.5178530E-01  -440   435   -48    18  -162   166 u=030  imp:n=1
03047  48  0.1333519E+00  -441   440   -48    18   -49   158 u=030  imp:n=1
03048  28  0.1187656E+00  -426   423   -48    18  -242    15 u=030  imp:n=1
03049  28  0.1187656E+00  -426   423   -48    18   -49   242 u=030  imp:n=1
03050  41  0.5279270E-01  -474   468   -48    18  -161    15 u=030  imp:n=1
03051  42  0.5392130E-01  -433   432   -48    18  -162   161 u=030  imp:n=1
03052  28  0.1187656E+00  -466   474   -48    18   -49    15 u=030  imp:n=1
03053  24  0.1232187E+00  -472   433   -48    18   -50    49 u=030  imp:n=1
03054  24  0.1232187E+00  -435   473   -48    18   -50    49 u=030  imp:n=1
03055  41  0.5279270E-01  -440   435   -48    18  -161    15 u=030  imp:n=1
03056  42  0.5392130E-01  -440   435   -48    18  -166   161 u=030  imp:n=1
03057  49  0.1333121E+00  -441   440   -48    18  -221    15 u=030  imp:n=1
03058  49  0.1333121E+00  -441   440   -48    18  -158   221 u=030  imp:n=1
03059  24  0.1232187E+00  -441   440   -48    18   -50    49 u=030  imp:n=1
03060  31  0.2714513E-01   -75    17   -48    18  -169   162 u=030  imp:n=1
03061  32  0.8823003E-01   -75    17   -48    18  -170   169 u=030  imp:n=1
03062  33  0.8829426E-01   -78    17   -48    18  -171   170 u=030  imp:n=1
03063  33  0.8829426E-01   -75    80   -48    18  -171   170 u=030  imp:n=1
03064   0                  -12     9   -14     4   -11     6 u=030 imp:n=1
03065   0                  -10    13   -14     4   -11     6 u=030 imp:n=1
03066   0                  -10     9    -7    14   -11     5 u=030 imp:n=1
03067   0                 -416    17   -21    18   -24     6 u=030 imp:n=1
03068   0                 -421   417   -21    48   -24     6 u=030 imp:n=1
03069   0                 -426   423   -21    48   -24     6 u=030 imp:n=1
03070   0                  -19   427   -21    48   -24     6 u=030 imp:n=1
03071   0                 -426   423   -48    18   -24    49 u=030 imp:n=1
03072   0                 -468   427   -48    18   -24    49 u=030 imp:n=1
03073   0                 -433   474   -48    18  -161    49 u=030 imp:n=1
03074   0                  -19   441   -48    26   -23   357 u=030 imp:n=1
03075   0                 -446   427   -48    26   -49    22 u=030 imp:n=1
03076   0                 -435   466   -48    18   -49   158 u=030 imp:n=1
03077   0                  -19   441   -48    18  -356    15 u=030 imp:n=1
03078   0                  -19   441  -252    18   -22   356 u=030 imp:n=1
03079   0                 -435   469   -48    26  -158     6 u=030 imp:n=1
03080   0                  -19   441  -251   252  -357   356 u=030 imp:n=1
03081   0                 -435   469   -48    18   -22    15 u=030 imp:n=1
03082   0                 -446   427   -48    18   -22    15 u=030 imp:n=1
03083   0                  -19   441  -252    26  -357    22 u=030 imp:n=1
03084   0                 -435   469   -48    26    -6    22 u=030 imp:n=1
03085   0                  -19   427   -21    48    -6    15 u=030 imp:n=1
03086   0                  -19   441   -48   251  -357   356 u=030 imp:n=1
03087   0                 -426   423   -21    48    -6    15 u=030 imp:n=1
03088   0                 -421   417   -21    48    -6    15 u=030 imp:n=1
03089   0                 -416    17   -21    18    -6    15 u=030 imp:n=1
03090   0                  -10    13   -14     4    -6     5 u=030 imp:n=1
03091   0                  -12     9   -14     4    -6     5 u=030 imp:n=1
03092   0                 -468   422   -48    18  -161    24 u=030 imp:n=1
03093   0                  -19   441   -26    18   -23    22 u=030 imp:n=1
03094   0                 -446   427   -26    18   -49    22 u=030 imp:n=1
03095   0                 -417   420   -48    18   -68    24 u=030 imp:n=1
03096   0                  -19   441   -48    18   -50    23 u=030 imp:n=1
03097   0                 -421   420   -48    18   -67    68 u=030 imp:n=1
03098   0                 -435   469   -26    18  -158    22 u=030 imp:n=1
```

```
03099   0                -416    17   -48    18   -67    24 u=030 imp:n=1
03100   0                 -19   440   -48    18  -162    50 u=030 imp:n=1
03101   0                -435   433   -48    18  -162    50 u=030 imp:n=1
03102   0                -422    17   -48    18  -162    67 u=030 imp:n=1
03103   0                 -19    17   -14    21   -24    15 u=030 imp:n=1
03104   0                 -19    75   -48    18  -171   162 u=030 imp:n=1
03105   0                 -80    78   -48    18  -171   170 u=030 imp:n=1
03106   0                 -19    17   -14    48  -171    24 u=030 imp:n=1
03107   0                 -19    17   -14    18   -16   171 u=030 imp:n=1
03108   3  0.8540120E-01    -2     1    -4     3   -81    11 u=030  imp:n=1
03109   3  0.8540120E-01    -2     1    -8     7   -81    11 u=030  imp:n=1
03110   3  0.8540120E-01    -9     1    -7     4   -81    11 u=030  imp:n=1
03111   3  0.8540120E-01    -2    10    -7     4   -81    11 u=030  imp:n=1
03112  34  0.1035093E+00   -82     9   -83     4   -85    84 u=030  imp:n=1
03113   0                 -10     9    -7     4   -84    11 u=030 imp:n=1
03114   0                 -10     9    -7     4   -81    85 u=030 imp:n=1
03115   0                 -10     9    -7    83   -85    84 u=030 imp:n=1
03116   0                 -10    82   -83     4   -85    84 u=030 imp:n=1
03117   1  0.3030146E-01    -2     1    -4     3    -6     5 u=031  imp:n=1
03118   1  0.3030146E-01    -2     1    -8     7    -6     5 u=031  imp:n=1
03119   2  0.7570860E-01    -9     1    -7     4    -6     5 u=031  imp:n=1
03120   2  0.7570860E-01    -2    10    -7     4    -6     5 u=031  imp:n=1
03121   3  0.8540120E-01    -2     1    -4     3   -11     6 u=031  imp:n=1
03122   3  0.8540120E-01    -2     1    -8     7   -11     6 u=031  imp:n=1
03123   3  0.8540120E-01    -9     1    -7     4   -11     6 u=031  imp:n=1
03124   3  0.8540120E-01    -2    10    -7     4   -11     6 u=031  imp:n=1
03125   4  0.7332760E-01   -13    12   -14     4   -15     5 u=031  imp:n=1
03126   5  0.3966184E-01   -13    12   -14     4   -11    16 u=031  imp:n=1
03127   6  0.3747366E-01   -17    12   -14    18   -16    15 u=031  imp:n=1
03128   6  0.3747366E-01   -13    19   -14    18   -16    15 u=031  imp:n=1
03129   6  0.3747366E-01   -13    12   -18     4   -16    15 u=031  imp:n=1
03130  48  0.1333519E+00  -446   416   -48    18   -49   158 u=031  imp:n=1
03131  40  0.5178530E-01  -447   446   -48    18  -162   166 u=031  imp:n=1
03132  86  0.8236775E-01  -448   447   -48    18  -356    15 u=031  imp:n=1
03133  87  0.2195034E-01  -448   447   -48    18  -158   357 u=031  imp:n=1
03134  88  0.7077679E-01  -448   447   -48   251  -357   356 u=031  imp:n=1
03135  88  0.7077679E-01  -448   447  -252    18  -357   356 u=031  imp:n=1
03136  89  0.6625060E-01  -449   447  -251   252  -357   356 u=031  imp:n=1
03137  89  0.6625060E-01  -448   450  -251   252  -357   356 u=031  imp:n=1
03138   0                 -450   449  -251   252  -357   356 u=031 imp:n=1
03139  85  0.1187737E+00  -467   466   -48    18   -50    49 u=031  imp:n=1
03140  36  0.6435380E-01  -453   452   -48    18  -158    15 u=031  imp:n=1
03141  37  0.6435380E-01  -453   452   -48    18   -49   158 u=031  imp:n=1
03142  38  0.8323048E-01  -453   452   -48    18  -162   161 u=031  imp:n=1
03143   7  0.8235419E-01  -454   453   -21    18   -22    15 u=031  imp:n=1
03144   7  0.8235419E-01  -454   453   -21    18   -24    23 u=031  imp:n=1
03145   8  0.7986135E-01  -454   453   -21    25   -23    22 u=031  imp:n=1
03146   8  0.7986135E-01  -454   453   -26    18   -23    22 u=031  imp:n=1
03147   9  0.6943934E-01  -455   453   -25    26   -23    22 u=031  imp:n=1
03148   9  0.6943934E-01  -454   456   -25    26   -23    22 u=031  imp:n=1
03149  10  0.4603587E-01  -456   455   -25    26   -23    22 u=031  imp:n=1
03150  27  0.1212447E+00  -457   453   -48    18   -67    24 u=031  imp:n=1
03151   7  0.8235419E-01  -459   458   -21    18   -22    15 u=031  imp:n=1
03152   7  0.8235419E-01  -459   458   -21    18   -24    23 u=031  imp:n=1
03153   8  0.7986135E-01  -459   458   -21    25   -23    22 u=031  imp:n=1
03154   8  0.7986135E-01  -459   458   -26    18   -23    22 u=031  imp:n=1
03155   9  0.6943934E-01  -460   458   -25    26   -23    22 u=031  imp:n=1
03156   9  0.6943934E-01  -459   461   -25    26   -23    22 u=031  imp:n=1
03157  10  0.4603587E-01  -461   460   -25    26   -23    22 u=031  imp:n=1
03158  26  0.7164290E-01  -462   457   -48    18   -68    15 u=031  imp:n=1
03159   7  0.8235419E-01  -441   462   -21    18   -22    15 u=031  imp:n=1
03160   7  0.8235419E-01  -441   462   -21    18   -24    23 u=031  imp:n=1
03161   8  0.7986135E-01  -441   462   -21    25   -23    22 u=031  imp:n=1
03162   8  0.7986135E-01  -441   462   -26    18   -23    22 u=031  imp:n=1
03163   9  0.6943934E-01  -463   462   -25    26   -23    22 u=031  imp:n=1
03164   9  0.6943934E-01  -441   464   -25    26   -23    22 u=031  imp:n=1
03165  10  0.4603587E-01  -464   463   -25    26   -23    22 u=031  imp:n=1
03166  25  0.1201037E+00  -465   462   -48    18   -67    24 u=031  imp:n=1
03167  49  0.1333121E+00  -446   416   -48    18  -221    15 u=031  imp:n=1
03168  49  0.1333121E+00  -446   416   -48    18  -158   221 u=031  imp:n=1
03169  24  0.1232187E+00  -446   416   -48    18   -50    49 u=031  imp:n=1
03170  41  0.5279270E-01  -447   446   -48    18  -161    15 u=031  imp:n=1
03171  42  0.5392130E-01  -447   446   -48    18  -166   161 u=031  imp:n=1
03172  24  0.1232187E+00  -466   447   -48    18   -50    49 u=031  imp:n=1
03173  24  0.1232187E+00  -451   467   -48    18   -50    49 u=031  imp:n=1
03174  28  0.1187656E+00  -451   448   -48    18   -49    15 u=031  imp:n=1
```

```
03175  41  0.5279270E-01  -452   451   -48    18  -161    15 u=031  imp:n=1
03176  42  0.5392130E-01  -452   451   -48    18  -162   161 u=031  imp:n=1
03177  28  0.1187656E+00  -458   454   -48    18  -242    15 u=031  imp:n=1
03178  28  0.1187656E+00  -458   454   -48    18   -49   242 u=031  imp:n=1
03179  31  0.2714513E-01   -75    17   -48    18  -169   162 u=031  imp:n=1
03180  32  0.8823003E-01   -75    17   -48    18  -170   169 u=031  imp:n=1
03181  33  0.8829426E-01   -78    17   -48    18  -171   170 u=031  imp:n=1
03182  33  0.8829426E-01   -75    80   -48    18  -171   170 u=031  imp:n=1
03183   0                  -12     9   -14     4   -11     6 u=031 imp:n=1
03184   0                  -10    13   -14     4   -11     6 u=031 imp:n=1
03185   0                  -10     9    -7    14   -11     5 u=031 imp:n=1
03186   0                 -416    17  -251   252  -357   356 u=031 imp:n=1
03187   0                  -19   441   -48    18  -356    15 u=031 imp:n=1
03188   0                 -457   459   -48    18  -357     6 u=031 imp:n=1
03189   0                  -19   441   -21    18  -357     6 u=031 imp:n=1
03190   0                 -416    17  -252    18  -357   356 u=031 imp:n=1
03191   0                 -457   459   -48    18  -356    15 u=031 imp:n=1
03192   0                 -416    17   -48    18  -356    15 u=031 imp:n=1
03193   0                  -19   441   -48   251    -6   356 u=031 imp:n=1
03194   0                 -457   459   -48   251    -6   356 u=031 imp:n=1
03195   0                  -19   441   -21    48    -6    15 u=031 imp:n=1
03196   0                 -453    17   -21    48  -357     6 u=031 imp:n=1
03197   0                 -458   454   -21    48  -357     6 u=031 imp:n=1
03198   0                 -462   459   -21    48  -357     6 u=031 imp:n=1
03199   0                 -462   459   -21    48    -6    15 u=031 imp:n=1
03200   0                  -19    17   -14    21   -24    15 u=031 imp:n=1
03201   0                 -458   454   -21    48    -6    15 u=031 imp:n=1
03202   0                 -453    17   -21    48    -6    15 u=031 imp:n=1
03203   0                  -19   441  -252    18    -6   356 u=031 imp:n=1
03204   0                 -457   459  -252    18    -6   356 u=031 imp:n=1
03205   0                 -416    17   -48   251  -357   356 u=031 imp:n=1
03206   0                  -19   441  -251   252    -6   356 u=031 imp:n=1
03207   0                 -457   459  -251   252    -6   356 u=031 imp:n=1
03208   0                  -10    13   -14     4    -6     5 u=031 imp:n=1
03209   0                 -453    17   -21    48  -158   357 u=031 imp:n=1
03210   0                 -458   454   -21    48  -158   357 u=031 imp:n=1
03211   0                 -462   459   -21    48  -158   357 u=031 imp:n=1
03212   0                  -19   441   -21    18  -158   357 u=031 imp:n=1
03213   0                  -12     9   -14     4    -6     5 u=031 imp:n=1
03214   0                 -457   459   -48    18   -49   158 u=031 imp:n=1
03215   0                 -448   447   -48    18   -49   158 u=031 imp:n=1
03216   0                  -19   441   -21    18   -49   158 u=031 imp:n=1
03217   0                 -416    17   -48    18   -50   357 u=031 imp:n=1
03218   0                 -457   459   -48    18  -158   357 u=031 imp:n=1
03219   0                 -462   459   -21    48   -49   158 u=031 imp:n=1
03220   0                 -458   454   -21    48   -49   158 u=031 imp:n=1
03221   0                 -453    17   -21    48   -49   158 u=031 imp:n=1
03222   0                 -453    17   -21    48   -24    49 u=031 imp:n=1
03223   0                 -458   454   -21    48   -24    49 u=031 imp:n=1
03224   0                 -462   459   -21    48   -24    49 u=031 imp:n=1
03225   0                  -19   441   -21    48   -24    49 u=031 imp:n=1
03226   0                  -19   453   -48    18  -162    67 u=031 imp:n=1
03227   0                 -451   447   -48    18  -162    50 u=031 imp:n=1
03228   0                 -446    17   -48    18  -162    50 u=031 imp:n=1
03229   0                  -19    75   -48    18  -171   162 u=031 imp:n=1
03230   0                  -80    78   -48    18  -171   170 u=031 imp:n=1
03231   0                  -19    17   -14    48  -171    24 u=031 imp:n=1
03232   0                  -19    17   -14    18   -16   171 u=031 imp:n=1
03233   0                 -462   457   -48    18   -67    68 u=031 imp:n=1
03234   0                  -19   465   -48    18   -67    24 u=031 imp:n=1
03235   0                  -19   441   -48    18   -24    49 u=031 imp:n=1
03236   0                 -457   459   -48    18   -24    49 u=031 imp:n=1
03237   0                 -458   454   -48    18   -24    49 u=031 imp:n=1
03238   0                 -453   452   -48    18  -161    49 u=031 imp:n=1
03239   3  0.8540120E-01    -2     1    -4     3   -81    11 u=031  imp:n=1
03240   3  0.8540120E-01    -2     1    -8     7   -81    11 u=031  imp:n=1
03241   3  0.8540120E-01    -9     1    -7     4   -81    11 u=031  imp:n=1
03242   3  0.8540120E-01    -2    10    -7     4   -81    11 u=031  imp:n=1
03243  34  0.1035093E+00   -82     9   -83     4   -85    84 u=031  imp:n=1
03244   0                  -10     9    -7     4   -84    11 u=031 imp:n=1
03245   0                  -10     9    -7     4   -81    85 u=031 imp:n=1
03246   0                  -10     9    -7    83   -85    84 u=031 imp:n=1
03247   0                  -10    82   -83     4   -85    84 u=031 imp:n=1
03248   1  0.3030146E-01    -2     1    -4     3    -6     5 u=032  imp:n=1
03249   1  0.3030146E-01    -2     1    -8     7    -6     5 u=032  imp:n=1
03250   2  0.7570860E-01    -9     1    -7     4    -6     5 u=032  imp:n=1
```

```
03251   2  0.7570860E-01    -2    10    -7     4    -6     5 u=032  imp:n=1
03252   3  0.8540120E-01    -2     1    -4     3   -11     6 u=032  imp:n=1
03253   3  0.8540120E-01    -2     1    -8     7   -11     6 u=032  imp:n=1
03254   3  0.8540120E-01    -9     1    -7     4   -11     6 u=032  imp:n=1
03255   3  0.8540120E-01    -2    10    -7     4   -11     6 u=032  imp:n=1
03256   4  0.7332760E-01   -13    12   -14     4   -15     5 u=032  imp:n=1
03257   5  0.3966184E-01   -13    12   -14     4   -11    16 u=032  imp:n=1
03258   6  0.3747366E-01   -17    12   -14    18   -16    15 u=032  imp:n=1
03259   6  0.3747366E-01   -13    19   -14    18   -16    15 u=032  imp:n=1
03260   6  0.3747366E-01   -13    12   -18     4   -16    15 u=032  imp:n=1
03261  36  0.6435380E-01   -75    17  -476   475  -158    15 u=032  imp:n=1
03262  38  0.8323048E-01   -75    17  -478   477  -162   161 u=032  imp:n=1
03263  37  0.6435380E-01   -75    17  -476   475   -49   158 u=032  imp:n=1
03264  40  0.5178530E-01   -75    17  -480   479  -162   166 u=032  imp:n=1
03265  28  0.1187656E+00   -75    17  -482   481   -49    15 u=032  imp:n=1
03266  85  0.1187737E+00   -75    17  -482   481   -50    49 u=032  imp:n=1
03267  86  0.8236775E-01   -75    17  -479   482  -356    15 u=032  imp:n=1
03268  87  0.2195034E-01   -75    17  -479   482  -158   357 u=032  imp:n=1
03269  88  0.7077679E-01   -75   483  -479   482  -357   356 u=032  imp:n=1
03270  88  0.7077679E-01  -484    17  -479   482  -357   356 u=032  imp:n=1
03271  89  0.6625060E-01  -483   484  -485   482  -357   356 u=032  imp:n=1
03272  89  0.6625060E-01  -483   484  -479   486  -357   356 u=032  imp:n=1
03273   0                 -483   484  -486   485  -357   356 u=032 imp:n=1
03274   7  0.8235419E-01   -19    17  -475   487   -22    15 u=032  imp:n=1
03275   7  0.8235419E-01   -19    17  -475   487   -24    23 u=032  imp:n=1
03276   8  0.7986135E-01   -19   201  -475   487   -23    22 u=032  imp:n=1
03277   8  0.7986135E-01  -202    17  -475   487   -23    22 u=032  imp:n=1
03278   9  0.6943934E-01  -201   202  -488   487   -23    22 u=032  imp:n=1
03279   9  0.6943934E-01  -201   202  -475   489   -23    22 u=032  imp:n=1
03280  10  0.4603587E-01  -201   202  -489   488   -23    22 u=032  imp:n=1
03281  15  0.8003452E-01   -19    17  -491   490   -22    15 u=032  imp:n=1
03282  15  0.8003452E-01   -19    17  -491   490   -24    23 u=032  imp:n=1
03283  16  0.7744373E-01   -19   201  -491   490   -23    22 u=032  imp:n=1
03284  16  0.7744373E-01  -202    17  -491   490   -23    22 u=032  imp:n=1
03285  17  0.6733980E-01  -201   202  -492   490   -23    22 u=032  imp:n=1
03286  17  0.6733980E-01  -201   202  -491   493   -23    22 u=032  imp:n=1
03287  18  0.4487970E-01  -201   202  -493   492   -23    22 u=032  imp:n=1
03288  23  0.1232400E+00   -75    17  -495   494   -49    15 u=032  imp:n=1
03289  15  0.8003452E-01   -19    17  -497   496   -22    15 u=032  imp:n=1
03290  15  0.8003452E-01   -19    17  -497   496   -24    23 u=032  imp:n=1
03291  16  0.7744373E-01   -19   201  -497   496   -23    22 u=032  imp:n=1
03292  16  0.7744373E-01  -202    17  -497   496   -23    22 u=032  imp:n=1
03293  17  0.6733980E-01  -201   202  -498   496   -23    22 u=032  imp:n=1
03294  17  0.6733980E-01  -201   202  -497   499   -23    22 u=032  imp:n=1
03295  18  0.4487970E-01  -201   202  -499   498   -23    22 u=032  imp:n=1
03296  25  0.1201037E+00   -75    17  -500   490   -67    24 u=032  imp:n=1
03297  11  0.7961518E-01   -19    17  -502   501   -22    15 u=032  imp:n=1
03298  11  0.7961518E-01   -19    17  -502   501   -32    31 u=032  imp:n=1
03299  12  0.7714468E-01   -19   201  -502   501   -31    22 u=032  imp:n=1
03300  12  0.7714468E-01  -202    17  -502   501   -31    22 u=032  imp:n=1
03301  13  0.6712964E-01  -201   202  -503   501   -31    22 u=032  imp:n=1
03302  13  0.6712964E-01  -201   202  -502   504   -31    22 u=032  imp:n=1
03303  14  0.4579853E-01  -201   202  -504   503   -31    22 u=032  imp:n=1
03304  11  0.7961518E-01   -19    17  -502   501   -35    32 u=032  imp:n=1
03305  11  0.7961518E-01   -19    17  -502   501   -37    36 u=032  imp:n=1
03306  12  0.7714468E-01   -19   201  -502   501   -36    35 u=032  imp:n=1
03307  12  0.7714468E-01  -202    17  -502   501   -36    35 u=032  imp:n=1
03308  13  0.6712964E-01  -201   202  -503   501   -36    35 u=032  imp:n=1
03309  13  0.6712964E-01  -201   202  -502   504   -36    35 u=032  imp:n=1
03310  14  0.4579853E-01  -201   202  -504   503   -36    35 u=032  imp:n=1
03311  29  0.1183522E+00   -75    17  -505    18   -70    37 u=032  imp:n=1
03312  91  0.7394484E-01   -75   483  -479   482  -162   158 u=032  imp:n=1
03313  91  0.7394484E-01  -484    17  -479   482  -162   158 u=032  imp:n=1
03314  92  0.6921516E-01  -483   484  -485   482  -162   158 u=032  imp:n=1
03315  92  0.6921516E-01  -483   484  -479   486  -162   158 u=032  imp:n=1
03316   0                 -483   484  -486   485  -162   158 u=032 imp:n=1
03317  41  0.5279270E-01   -75    17  -481   476  -161    15 u=032  imp:n=1
03318  42  0.5392130E-01   -75    17  -506   478  -162   161 u=032  imp:n=1
03319  41  0.5279270E-01   -75    17  -480   479  -161    15 u=032  imp:n=1
03320  42  0.5392130E-01   -75    17  -480   479  -166   161 u=032  imp:n=1
03321  30  0.5464445E-01   -75    17  -487   491   -49    15 u=032  imp:n=1
03322  26  0.7164290E-01   -75    17  -490   495   -68    15 u=032  imp:n=1
03323  26  0.7164290E-01   -75    17  -494   497   -68    15 u=032  imp:n=1
03324  30  0.5464445E-01   -75    17  -496   502   -49    15 u=032  imp:n=1
03325  24  0.1232187E+00   -75    17  -477   500   -67    24 u=032  imp:n=1
03326  24  0.1232187E+00   -75    17  -495   494   -50    49 u=032  imp:n=1
```

```
03327  31  0.2714513E-01   -75    17   -48    18  -169   162 u=032  imp:n=1
03328  32  0.8823003E-01   -75    17   -48    18  -170   169 u=032  imp:n=1
03329  33  0.8829426E-01   -78    17   -48    18  -171   170 u=032  imp:n=1
03330  33  0.8829426E-01   -75    80   -48    18  -171   170 u=032  imp:n=1
03331   0                  -12     9   -14     4   -11     6 u=032 imp:n=1
03332   0                  -10    13   -14     4   -11     6 u=032 imp:n=1
03333   0                  -10     9    -7    14   -11     5 u=032 imp:n=1
03334   0                  -19    17  -501    18   -37    15 u=032 imp:n=1
03335   0                  -19    17  -496   502   -24    49 u=032 imp:n=1
03336   0                  -19    75  -490   497   -23    49 u=032 imp:n=1
03337   0                  -19    75  -480   482  -356    15 u=032 imp:n=1
03338   0                  -19    75  -480   482    -6   356 u=032 imp:n=1
03339   0                  -19    17  -487   491   -24    49 u=032 imp:n=1
03340   0                  -19    17  -476   475   -24    49 u=032 imp:n=1
03341   0                  -19    75  -481   476  -161    15 u=032 imp:n=1
03342   0                  -19    75  -490   497   -22    15 u=032 imp:n=1
03343   0                  -19    17  -497   502   -37    24 u=032 imp:n=1
03344   0                  -19    75  -490   497   -36    24 u=032 imp:n=1
03345   0                  -19    75  -490   497    -6    22 u=032 imp:n=1
03346   0                  -10    13   -14     4    -6     5 u=032 imp:n=1
03347   0                  -19    17  -497   505   -68    37 u=032 imp:n=1
03348   0                  -19    75  -490   497  -161    37 u=032 imp:n=1
03349   0                  -12     9   -14     4    -6     5 u=032 imp:n=1
03350   0                  -19    75  -505    18   -70    37 u=032 imp:n=1
03351   0                  -19    75  -482   481  -158    15 u=032 imp:n=1
03352   0                  -19    75  -480   482  -158   357 u=032 imp:n=1
03353   0                  -19    75  -490   497   -37    36 u=032 imp:n=1
03354   0                  -19    75  -480   482  -357     6 u=032 imp:n=1
03355   0                  -19    75  -490   497  -158     6 u=032 imp:n=1
03356   0                  -19    17  -476   477  -161    24 u=032 imp:n=1
03357   0                  -19    75  -477   490  -161    24 u=032 imp:n=1
03358   0                  -19    75  -482   481   -50   166 u=032 imp:n=1
03359   0                  -19    75  -480   482  -162   166 u=032 imp:n=1
03360   0                  -19    17  -482   506  -162    50 u=032 imp:n=1
03361   0                  -19    75  -480   481  -166   161 u=032 imp:n=1
03362   0                  -19    75  -490   497   -24    23 u=032 imp:n=1
03363   0                  -19    75  -506   477  -162   161 u=032 imp:n=1
03364   0                  -19    17  -481   506   -50   161 u=032 imp:n=1
03365   0                  -19    75  -477   490   -67   161 u=032 imp:n=1
03366   0                  -19    75  -490   495   -68   161 u=032 imp:n=1
03367   0                  -19    75  -494   497   -68   161 u=032 imp:n=1
03368   0                  -19    17   -14   480  -162    15 u=032 imp:n=1
03369   0                  -19    75  -480   481  -161    49 u=032 imp:n=1
03370   0                  -19    75  -495   494   -50   161 u=032 imp:n=1
03371   0                  -19    17  -490   495   -50    68 u=032 imp:n=1
03372   0                  -19    17  -494   505   -50    68 u=032 imp:n=1
03373   0                  -19    75  -496   502   -49    15 u=032 imp:n=1
03374   0                  -19    75  -490   497   -49   158 u=032 imp:n=1
03375   0                  -19    17  -490   505   -67    50 u=032 imp:n=1
03376   0                  -19    17  -477   505   -70    67 u=032 imp:n=1
03377   0                  -19    75  -487   491   -49    15 u=032 imp:n=1
03378   0                  -19    17  -477    18  -162    70 u=032 imp:n=1
03379   0                  -19    75   -48    18  -171   162 u=032 imp:n=1
03380   0                  -19    75  -480   481   -49   158 u=032 imp:n=1
03381   0                  -80    78   -48    18  -171   170 u=032 imp:n=1
03382   0                  -19    17   -14    48  -171   162 u=032 imp:n=1
03383   0                  -19    75  -476   475   -49    15 u=032 imp:n=1
03384   0                  -19    17   -14    18   -16   171 u=032 imp:n=1
03385   3  0.8540120E-01    -2     1    -4     3   -81    11 u=032  imp:n=1
03386   3  0.8540120E-01    -2     1    -8     7   -81    11 u=032  imp:n=1
03387   3  0.8540120E-01    -9     1    -7     4   -81    11 u=032  imp:n=1
03388   3  0.8540120E-01    -2    10    -7     4   -81    11 u=032  imp:n=1
03389  34  0.1035093E+00   -82     9   -83     4   -85    84 u=032  imp:n=1
03390   0                  -10     9    -7     4   -84    11 u=032 imp:n=1
03391   0                  -10     9    -7     4   -81    85 u=032 imp:n=1
03392   0                  -10     9    -7    83   -85    84 u=032 imp:n=1
03393   0                  -10    82   -83     4   -85    84 u=032 imp:n=1
03394   1  0.3030146E-01    -2     1    -4     3    -6     5 u=033  imp:n=1
03395   1  0.3030146E-01    -2     1    -8     7    -6     5 u=033  imp:n=1
03396   2  0.7570860E-01    -9     1    -7     4    -6     5 u=033  imp:n=1
03397   2  0.7570860E-01    -2    10    -7     4    -6     5 u=033  imp:n=1
03398   3  0.8540120E-01    -2     1    -4     3   -11     6 u=033  imp:n=1
03399   3  0.8540120E-01    -2     1    -8     7   -11     6 u=033  imp:n=1
03400   3  0.8540120E-01    -9     1    -7     4   -11     6 u=033  imp:n=1
03401   3  0.8540120E-01    -2    10    -7     4   -11     6 u=033  imp:n=1
03402   4  0.7332760E-01   -13    12   -14     4   -15     5 u=033  imp:n=1
```

```
03403   5  0.3966184E-01   -13    12   -14     4   -11    16 u=033  imp:n=1
03404   6  0.3747366E-01   -17    12   -14    18   -16    15 u=033  imp:n=1
03405   6  0.3747366E-01   -13    19   -14    18   -16    15 u=033  imp:n=1
03406   6  0.3747366E-01   -13    12   -18     4   -16    15 u=033  imp:n=1
03407  36  0.6435380E-01   -75    17  -341   507  -158    15 u=033  imp:n=1
03408  38  0.8323048E-01   -75    17  -341   507  -162   161 u=033  imp:n=1
03409  37  0.6435380E-01   -75    17  -341   507   -49   158 u=033  imp:n=1
03410  40  0.5178530E-01   -75    17  -508    18  -162   166 u=033  imp:n=1
03411  28  0.1187656E+00   -75    17  -509   223   -49    15 u=033  imp:n=1
03412  85  0.1187737E+00   -75    17  -509   223   -50    49 u=033  imp:n=1
03413  86  0.8236775E-01   -75    17  -223   508  -356    15 u=033  imp:n=1
03414  87  0.2195034E-01   -75    17  -223   508  -158   357 u=033  imp:n=1
03415  88  0.7077679E-01   -75   483  -223   508  -357   356 u=033  imp:n=1
03416  88  0.7077679E-01  -484    17  -223   508  -357   356 u=033  imp:n=1
03417  89  0.6625060E-01  -483   484  -510   508  -357   356 u=033  imp:n=1
03418  89  0.6625060E-01  -483   484  -223   511  -357   356 u=033  imp:n=1
03419   0                 -483   484  -511   510  -357   356 u=033 imp:n=1
03420   7  0.8235419E-01   -19    17  -512   341   -22    15 u=033  imp:n=1
03421   7  0.8235419E-01   -19    17  -512   341   -24    23 u=033  imp:n=1
03422   8  0.7986135E-01   -19   201  -512   341   -23    22 u=033  imp:n=1
03423   8  0.7986135E-01  -202    17  -512   341   -23    22 u=033  imp:n=1
03424   9  0.6943934E-01  -201   202  -513   341   -23    22 u=033  imp:n=1
03425   9  0.6943934E-01  -201   202  -512   514   -23    22 u=033  imp:n=1
03426  10  0.4603587E-01  -201   202  -514   513   -23    22 u=033  imp:n=1
03427  15  0.8003452E-01   -19    17  -516   515   -22    15 u=033  imp:n=1
03428  15  0.8003452E-01   -19    17  -516   515   -24    23 u=033  imp:n=1
03429  16  0.7744373E-01   -19   201  -516   515   -23    22 u=033  imp:n=1
03430  16  0.7744373E-01  -202    17  -516   515   -23    22 u=033  imp:n=1
03431  17  0.6733980E-01  -201   202  -517   515   -23    22 u=033  imp:n=1
03432  17  0.6733980E-01  -201   202  -516   518   -23    22 u=033  imp:n=1
03433  18  0.4487970E-01  -201   202  -518   517   -23    22 u=033  imp:n=1
03434  23  0.1232400E+00   -75    17  -520   519   -49    15 u=033  imp:n=1
03435  15  0.8003452E-01   -19    17  -522   521   -22    15 u=033  imp:n=1
03436  15  0.8003452E-01   -19    17  -522   521   -24    23 u=033  imp:n=1
03437  16  0.7744373E-01   -19   201  -522   521   -23    22 u=033  imp:n=1
03438  16  0.7744373E-01  -202    17  -522   521   -23    22 u=033  imp:n=1
03439  17  0.6733980E-01  -201   202  -523   521   -23    22 u=033  imp:n=1
03440  17  0.6733980E-01  -201   202  -522   524   -23    22 u=033  imp:n=1
03441  18  0.4487970E-01  -201   202  -524   523   -23    22 u=033  imp:n=1
03442  25  0.1201037E+00   -75    17  -229   525   -67    24 u=033  imp:n=1
03443  11  0.7961518E-01   -19    17  -527   526   -22    15 u=033  imp:n=1
03444  11  0.7961518E-01   -19    17  -527   526   -32    31 u=033  imp:n=1
03445  12  0.7714468E-01   -19   201  -527   526   -31    22 u=033  imp:n=1
03446  12  0.7714468E-01  -202    17  -527   526   -31    22 u=033  imp:n=1
03447  13  0.6712964E-01  -201   202  -528   526   -31    22 u=033  imp:n=1
03448  13  0.6712964E-01  -201   202  -527   529   -31    22 u=033  imp:n=1
03449  14  0.4579853E-01  -201   202  -529   528   -31    22 u=033  imp:n=1
03450  11  0.7961518E-01   -19    17  -527   526   -35    32 u=033  imp:n=1
03451  11  0.7961518E-01   -19    17  -527   526   -37    36 u=033  imp:n=1
03452  12  0.7714468E-01   -19   201  -527   526   -36    35 u=033  imp:n=1
03453  12  0.7714468E-01  -202    17  -527   526   -36    35 u=033  imp:n=1
03454  13  0.6712964E-01  -201   202  -528   526   -36    35 u=033  imp:n=1
03455  13  0.6712964E-01  -201   202  -527   529   -36    35 u=033  imp:n=1
03456  14  0.4579853E-01  -201   202  -529   528   -36    35 u=033  imp:n=1
03457  29  0.1183522E+00   -75    17  -530   521   -70    37 u=033  imp:n=1
03458  41  0.5279270E-01   -75    17  -507   509  -161    15 u=033  imp:n=1
03459  42  0.5392130E-01   -75    17  -507   509  -162   161 u=033  imp:n=1
03460  41  0.5279270E-01   -75    17  -508    18  -161    15 u=033  imp:n=1
03461  42  0.5392130E-01   -75    17  -508    18  -166   161 u=033  imp:n=1
03462  24  0.1232187E+00   -75    17  -531   508   -50    49 u=033  imp:n=1
03463  24  0.1232187E+00   -75    17  -223   531   -50    49 u=033  imp:n=1
03464  30  0.5464445E-01   -75    17  -515   512   -49    15 u=033  imp:n=1
03465  26  0.7164290E-01   -75    17  -519   516   -68    15 u=033  imp:n=1
03466  26  0.7164290E-01   -75    17  -521   520   -68    15 u=033  imp:n=1
03467  30  0.5464445E-01   -75    17  -526   522   -49    15 u=033  imp:n=1
03468  24  0.1232187E+00   -75    17  -525   341   -67    24 u=033  imp:n=1
03469  24  0.1232187E+00   -75    17  -520   519   -50    49 u=033  imp:n=1
03470  31  0.2714513E-01   -75    17   -48    18  -169   162 u=033  imp:n=1
03471  32  0.8823003E-01   -75    17   -48    18  -170   169 u=033  imp:n=1
03472  33  0.8829426E-01   -78    17   -48    18  -171   170 u=033  imp:n=1
03473  33  0.8829426E-01   -75    80   -48    18  -171   170 u=033  imp:n=1
03474   0                  -12     9   -14     4   -11     6 u=033 imp:n=1
03475   0                  -10    13   -14     4   -11     6 u=033 imp:n=1
03476   0                  -10     9    -7    14   -11     5 u=033 imp:n=1
03477   0                  -19    75  -509    18  -161    49 u=033 imp:n=1
03478   0                  -19    75  -521   516   -22    15 u=033 imp:n=1
```

```
03479   0                    -19    75  -521   516    -6    22 u=033 imp:n=1
03480   0                    -19    17  -341   507  -161    49 u=033 imp:n=1
03481   0                    -19    75  -507   509  -162    15 u=033 imp:n=1
03482   0                    -19    17  -515   512   -24    49 u=033 imp:n=1
03483   0                    -19    75  -521   516   -23    49 u=033 imp:n=1
03484   0                    -10    13   -14     4    -6     5 u=033 imp:n=1
03485   0                    -12     9   -14     4    -6     5 u=033 imp:n=1
03486   0                    -19    17  -526   522   -24    49 u=033 imp:n=1
03487   0                    -19    17   -14   527   -37    15 u=033 imp:n=1
03488   0                    -19    75  -229   341  -161    24 u=033 imp:n=1
03489   0                    -19    75  -521   516  -158     6 u=033 imp:n=1
03490   0                    -19    17  -516   229   -68    24 u=033 imp:n=1
03491   0                    -19    75  -521   516   -36    24 u=033 imp:n=1
03492   0                    -19    17  -526   521   -37    24 u=033 imp:n=1
03493   0                    -19    75  -223   508  -158    15 u=033 imp:n=1
03494   0                    -19    75  -341   507  -162   161 u=033 imp:n=1
03495   0                    -19    75  -519   516   -68   161 u=033 imp:n=1
03496   0                    -19    75  -521   520   -68   161 u=033 imp:n=1
03497   0                    -19    75  -530   516  -161    37 u=033 imp:n=1
03498   0                    -19    75  -520   519   -50   161 u=033 imp:n=1
03499   0                    -19    17  -521   520   -50    68 u=033 imp:n=1
03500   0                    -19    17   -14   530   -70    37 u=033 imp:n=1
03501   0                    -19    17  -519   229   -50    68 u=033 imp:n=1
03502   0                    -19    17  -521   229   -67    50 u=033 imp:n=1
03503   0                    -19    75  -521   516   -37    36 u=033 imp:n=1
03504   0                    -19    75  -229   341   -67   161 u=033 imp:n=1
03505   0                    -19    75  -530   521   -70   161 u=033 imp:n=1
03506   0                    -19    17  -521   341   -70    67 u=033 imp:n=1
03507   0                    -19    17   -14   341  -162    70 u=033 imp:n=1
03508   0                    -19    75  -508    18  -162   166 u=033 imp:n=1
03509   0                    -19    75  -509   508   -50   166 u=033 imp:n=1
03510   0                    -19    17  -509   508  -162    50 u=033 imp:n=1
03511   0                    -19    75  -509    18  -166   161 u=033 imp:n=1
03512   0                    -19    75  -521   516   -24    23 u=033 imp:n=1
03513   0                    -19    75   -48    18  -171   162 u=033 imp:n=1
03514   0                    -80    78   -48    18  -171   170 u=033 imp:n=1
03515   0                    -19    17   -14    48  -171   162 u=033 imp:n=1
03516   0                    -19    17   -14    18   -16   171 u=033 imp:n=1
03517   0                    -19    75  -341   507   -49    15 u=033 imp:n=1
03518   0                    -19    17  -223   508   -49   158 u=033 imp:n=1
03519   0                    -19    75  -508    18   -49    15 u=033 imp:n=1
03520   0                    -19    75  -526   522   -49    15 u=033 imp:n=1
03521   0                    -19    75  -509   223   -49    15 u=033 imp:n=1
03522   0                    -19    75  -515   512   -49    15 u=033 imp:n=1
03523   0                    -19    75  -521   516   -49   158 u=033 imp:n=1
03524   3  0.8540120E-01      -2     1    -4     3   -81    11 u=033  imp:n=1
03525   3  0.8540120E-01      -2     1    -8     7   -81    11 u=033  imp:n=1
03526   3  0.8540120E-01      -9     1    -7     4   -81    11 u=033  imp:n=1
03527   3  0.8540120E-01      -2    10    -7     4   -81    11 u=033  imp:n=1
03528  34  0.1035093E+00     -82     9   -83     4   -85    84 u=033  imp:n=1
03529   0                    -10     9    -7     4   -84    11 u=033 imp:n=1
03530   0                    -10     9    -7     4   -81    85 u=033 imp:n=1
03531   0                    -10     9    -7    83   -85    84 u=033 imp:n=1
03532   0                    -10    82   -83     4   -85    84 u=033 imp:n=1
03533   1  0.3030146E-01      -2     1    -4     3    -6     5 u=034  imp:n=1
03534   1  0.3030146E-01      -2     1    -8     7    -6     5 u=034  imp:n=1
03535   2  0.7570860E-01      -9     1    -7     4    -6     5 u=034  imp:n=1
03536   2  0.7570860E-01      -2    10    -7     4    -6     5 u=034  imp:n=1
03537   3  0.8540120E-01      -2     1    -4     3   -11     6 u=034  imp:n=1
03538   3  0.8540120E-01      -2     1    -8     7   -11     6 u=034  imp:n=1
03539   3  0.8540120E-01      -9     1    -7     4   -11     6 u=034  imp:n=1
03540   3  0.8540120E-01      -2    10    -7     4   -11     6 u=034  imp:n=1
03541   4  0.7332760E-01     -13    12   -14     4   -15     5 u=034  imp:n=1
03542   5  0.3966184E-01     -13    12   -14     4   -11    16 u=034  imp:n=1
03543   6  0.3747366E-01     -17    12   -14    18   -16    15 u=034  imp:n=1
03544   6  0.3747366E-01     -13    19   -14    18   -16    15 u=034  imp:n=1
03545   6  0.3747366E-01     -13    12   -18     4   -16    15 u=034  imp:n=1
03546   7  0.8235419E-01     -20    17   -21    18   -22    15 u=034  imp:n=1
03547   7  0.8235419E-01     -20    17   -21    18   -24    23 u=034  imp:n=1
03548   8  0.7986135E-01     -20    17   -21    25   -23    22 u=034  imp:n=1
03549   8  0.7986135E-01     -20    17   -26    18   -23    22 u=034  imp:n=1
03550   9  0.6943934E-01     -27    17   -25    26   -23    22 u=034  imp:n=1
03551   9  0.6943934E-01     -20    28   -25    26   -23    22 u=034  imp:n=1
03552  10  0.4603587E-01     -28    27   -25    26   -23    22 u=034  imp:n=1
03553  11  0.7961518E-01     -30    29   -21    18   -22    15 u=034  imp:n=1
03554  11  0.7961518E-01     -30    29   -21    18   -32    31 u=034  imp:n=1
```

```
03555  12  0.7714468E-01   -30    29   -21    25   -31    22 u=034  imp:n=1
03556  12  0.7714468E-01   -30    29   -26    18   -31    22 u=034  imp:n=1
03557  13  0.6712964E-01   -33    29   -25    26   -31    22 u=034  imp:n=1
03558  13  0.6712964E-01   -30    34   -25    26   -31    22 u=034  imp:n=1
03559  14  0.4579853E-01   -34    33   -25    26   -31    22 u=034  imp:n=1
03560  11  0.7961518E-01   -30    29   -21    18   -35    32 u=034  imp:n=1
03561  11  0.7961518E-01   -30    29   -21    18   -37    36 u=034  imp:n=1
03562  12  0.7714468E-01   -30    29   -21    25   -36    35 u=034  imp:n=1
03563  12  0.7714468E-01   -30    29   -26    18   -36    35 u=034  imp:n=1
03564  13  0.6712964E-01   -33    29   -25    26   -36    35 u=034  imp:n=1
03565  13  0.6712964E-01   -30    34   -25    26   -36    35 u=034  imp:n=1
03566  14  0.4579853E-01   -34    33   -25    26   -36    35 u=034  imp:n=1
03567  15  0.8003452E-01   -39    38   -21    18   -22    15 u=034  imp:n=1
03568  15  0.8003452E-01   -39    38   -21    18   -24    23 u=034  imp:n=1
03569  16  0.7744373E-01   -39    38   -21    25   -23    22 u=034  imp:n=1
03570  16  0.7744373E-01   -39    38   -26    18   -23    22 u=034  imp:n=1
03571  17  0.6733980E-01   -40    38   -25    26   -23    22 u=034  imp:n=1
03572  17  0.6733980E-01   -39    41   -25    26   -23    22 u=034  imp:n=1
03573  18  0.4487970E-01   -41    40   -25    26   -23    22 u=034  imp:n=1
03574  35  0.8186756E-01  -532    39   -48    18   -49    15 u=034  imp:n=1
03575   7  0.8235419E-01  -122   532   -21    18   -22    15 u=034  imp:n=1
03576   7  0.8235419E-01  -122   532   -21    18   -24    23 u=034  imp:n=1
03577   8  0.7986135E-01  -122   532   -21    25   -23    22 u=034  imp:n=1
03578   8  0.7986135E-01  -122   532   -26    18   -23    22 u=034  imp:n=1
03579   9  0.6943934E-01  -533   532   -25    26   -23    22 u=034  imp:n=1
03580   9  0.6943934E-01  -122    44   -25    26   -23    22 u=034  imp:n=1
03581  10  0.4603587E-01   -44   533   -25    26   -23    22 u=034  imp:n=1
03582  19  0.7776510E-01  -124   122   -21    18   -22    15 u=034  imp:n=1
03583  19  0.7776510E-01  -124   122   -21    18   -32    31 u=034  imp:n=1
03584  20  0.7523151E-01  -124   122   -21    25   -31    22 u=034  imp:n=1
03585  20  0.7523151E-01  -124   122   -26    18   -31    22 u=034  imp:n=1
03586  21  0.6542969E-01  -125   122   -25    26   -31    22 u=034  imp:n=1
03587  21  0.6542969E-01  -124   126   -25    26   -31    22 u=034  imp:n=1
03588  22  0.4487471E-01  -126   125   -25    26   -31    22 u=034  imp:n=1
03589  19  0.7776510E-01  -124   122   -21    18   -35    32 u=034  imp:n=1
03590  19  0.7776510E-01  -124   122   -21    18   -37    36 u=034  imp:n=1
03591  20  0.7523151E-01  -124   122   -21    25   -36    35 u=034  imp:n=1
03592  20  0.7523151E-01  -124   122   -26    18   -36    35 u=034  imp:n=1
03593  21  0.6542969E-01  -125   122   -25    26   -36    35 u=034  imp:n=1
03594  21  0.6542969E-01  -124   126   -25    26   -36    35 u=034  imp:n=1
03595  22  0.4487471E-01  -126   125   -25    26   -36    35 u=034  imp:n=1
03596  62  0.8630075E-01   -47    46   -48    18  -356    15 u=034  imp:n=1
03597  63  0.3112637E-01   -47    46   -48    18  -158   357 u=034  imp:n=1
03598  64  0.7416011E-01   -47    46   -48   251  -357   356 u=034  imp:n=1
03599  64  0.7416011E-01   -47    46  -252    18  -357   356 u=034  imp:n=1
03600  65  0.7056425E-01  -414    46  -251   252  -357   356 u=034  imp:n=1
03601  65  0.7056425E-01   -47   415  -251   252  -357   356 u=034  imp:n=1
03602   0                 -415   414  -251   252  -357   356 u=034 imp:n=1
03603  60  0.6601119E-01   -47    46  -342   341   -49   158 u=034  imp:n=1
03604  60  0.6601119E-01   -47    46   -48   344   -49   158 u=034  imp:n=1
03605  61  0.6601310E-01   -47    46  -344   342   -49   360 u=034  imp:n=1
03606  61  0.6601310E-01   -47    46  -344   342  -361   158 u=034  imp:n=1
03607   0                  -47    46  -344   342  -360   361 u=034 imp:n=1
03608  24  0.1232187E+00   -47    46   -48    18   -50    49 u=034  imp:n=1
03609  19  0.7776510E-01   -52    51   -21    18   -22    15 u=034  imp:n=1
03610  19  0.7776510E-01   -52    51   -21    18   -32    31 u=034  imp:n=1
03611  20  0.7523151E-01   -52    51   -21    25   -31    22 u=034  imp:n=1
03612  20  0.7523151E-01   -52    51   -26    18   -31    22 u=034  imp:n=1
03613  21  0.6542969E-01   -53    51   -25    26   -31    22 u=034  imp:n=1
03614  21  0.6542969E-01   -52    54   -25    26   -31    22 u=034  imp:n=1
03615  22  0.4487471E-01   -54    53   -25    26   -31    22 u=034  imp:n=1
03616  19  0.7776510E-01   -52    51   -21    18   -35    32 u=034  imp:n=1
03617  19  0.7776510E-01   -52    51   -21    18   -37    36 u=034  imp:n=1
03618  20  0.7523151E-01   -52    51   -21    25   -36    35 u=034  imp:n=1
03619  20  0.7523151E-01   -52    51   -26    18   -36    35 u=034  imp:n=1
03620  21  0.6542969E-01   -53    51   -25    26   -36    35 u=034  imp:n=1
03621  21  0.6542969E-01   -52    54   -25    26   -36    35 u=034  imp:n=1
03622  22  0.4487471E-01   -54    53   -25    26   -36    35 u=034  imp:n=1
03623  15  0.8003452E-01  -130    52   -21    18   -22    15 u=034  imp:n=1
03624  15  0.8003452E-01  -130    52   -21    18   -24    23 u=034  imp:n=1
03625  16  0.7744373E-01  -130    52   -21    25   -23    22 u=034  imp:n=1
03626  16  0.7744373E-01  -130    52   -26    18   -23    22 u=034  imp:n=1
03627  17  0.6733980E-01  -128    52   -25    26   -23    22 u=034  imp:n=1
03628  17  0.6733980E-01  -130    57   -25    26   -23    22 u=034  imp:n=1
03629  18  0.4487970E-01   -57   128   -25    26   -23    22 u=034  imp:n=1
03630  15  0.8003452E-01  -131   130   -21    18   -22    15 u=034  imp:n=1
```

```
03631  15  0.8003452E-01  -131   130   -21    18   -24    23 u=034  imp:n=1
03632  16  0.7744373E-01  -131   130   -21    25   -23    22 u=034  imp:n=1
03633  16  0.7744373E-01  -131   130   -26    18   -23    22 u=034  imp:n=1
03634  17  0.6733980E-01  -132   130   -25    26   -23    22 u=034  imp:n=1
03635  17  0.6733980E-01  -131   133   -25    26   -23    22 u=034  imp:n=1
03636  18  0.4487970E-01  -133   132   -25    26   -23    22 u=034  imp:n=1
03637  11  0.7961518E-01  -135   134   -21    18   -22    15 u=034  imp:n=1
03638  11  0.7961518E-01  -135   134   -21    18   -32    31 u=034  imp:n=1
03639  12  0.7714468E-01  -135   134   -21    25   -31    22 u=034  imp:n=1
03640  12  0.7714468E-01  -135   134   -26    18   -31    22 u=034  imp:n=1
03641  13  0.6712964E-01  -136   134   -25    26   -31    22 u=034  imp:n=1
03642  13  0.6712964E-01  -135   137   -25    26   -31    22 u=034  imp:n=1
03643  14  0.4579853E-01  -137   136   -25    26   -31    22 u=034  imp:n=1
03644  11  0.7961518E-01  -135   134   -21    18   -35    32 u=034  imp:n=1
03645  11  0.7961518E-01  -135   134   -21    18   -37    36 u=034  imp:n=1
03646  12  0.7714468E-01  -135   134   -21    25   -36    35 u=034  imp:n=1
03647  12  0.7714468E-01  -135   134   -26    18   -36    35 u=034  imp:n=1
03648  13  0.6712964E-01  -136   134   -25    26   -36    35 u=034  imp:n=1
03649  13  0.6712964E-01  -135   137   -25    26   -36    35 u=034  imp:n=1
03650  14  0.4579853E-01  -137   136   -25    26   -36    35 u=034  imp:n=1
03651   7  0.8235419E-01   -19    63   -21    18   -22    15 u=034  imp:n=1
03652   7  0.8235419E-01   -19    63   -21    18   -24    23 u=034  imp:n=1
03653   8  0.7986135E-01   -19    63   -21    25   -23    22 u=034  imp:n=1
03654   8  0.7986135E-01   -19    63   -26    18   -23    22 u=034  imp:n=1
03655   9  0.6943934E-01   -64    63   -25    26   -23    22 u=034  imp:n=1
03656   9  0.6943934E-01   -19    65   -25    26   -23    22 u=034  imp:n=1
03657  10  0.4603587E-01   -65    64   -25    26   -23    22 u=034  imp:n=1
03658  25  0.1201037E+00   -66    17   -48    18   -67    24 u=034  imp:n=1
03659  26  0.7164290E-01   -29    20   -48    18   -68    15 u=034  imp:n=1
03660  27  0.1212447E+00   -69    29   -48    18   -70    37 u=034  imp:n=1
03661  28  0.1187656E+00   -38    30   -48    18   -49    15 u=034  imp:n=1
03662  29  0.1183522E+00   -71    69   -48    18   -70    37 u=034  imp:n=1
03663  26  0.7164290E-01   -46    71   -48    18   -68    15 u=034  imp:n=1
03664  26  0.7164290E-01   -51    47   -48    18   -68    15 u=034  imp:n=1
03665  29  0.1183522E+00   -72    51   -48    18   -70    37 u=034  imp:n=1
03666  27  0.1212447E+00   -73    72   -48    18   -70    37 u=034  imp:n=1
03667  28  0.1187656E+00  -134   131   -48    18   -49    15 u=034  imp:n=1
03668  26  0.7164290E-01   -63    73   -48    18   -68    15 u=034  imp:n=1
03669  25  0.1201037E+00   -74    63   -48    18   -67    24 u=034  imp:n=1
03670  31  0.2714513E-01   -75    17   -48    18   -76    70 u=034  imp:n=1
03671  32  0.8823003E-01   -75    17   -48    18   -77    76 u=034  imp:n=1
03672  33  0.8829426E-01   -78    17   -48    18   -79    77 u=034  imp:n=1
03673  33  0.8829426E-01   -75    80   -48    18   -79    77 u=034  imp:n=1
03674   0                  -12     9   -14     4   -11     6 u=034 imp:n=1
03675   0                  -10    13   -14     4   -11     6 u=034 imp:n=1
03676   0                  -10     9    -7    14   -11     5 u=034 imp:n=1
03677   0                  -29    20   -25    48   -24    22 u=034 imp:n=1
03678   0                  -38    30   -25    48   -49    22 u=034 imp:n=1
03679   0                 -532    39   -25    48   -49    22 u=034 imp:n=1
03680   0                  -51   124   -25    48   -36    22 u=034 imp:n=1
03681   0                 -134   131   -25    48   -24    22 u=034 imp:n=1
03682   0                  -63   135   -25    48   -24    22 u=034 imp:n=1
03683   0                  -71   124   -48    18   -31     6 u=034 imp:n=1
03684   0                  -73   135   -48    18   -31     6 u=034 imp:n=1
03685   0                  -73   135   -48    18   -22    15 u=034 imp:n=1
03686   0                  -71   124   -48    18   -22    15 u=034 imp:n=1
03687   0                  -63   135   -21    48   -22    15 u=034 imp:n=1
03688   0                 -134   131   -21    48   -22    15 u=034 imp:n=1
03689   0                  -51   124   -21    48   -22    15 u=034 imp:n=1
03690   0                  -38    30   -25    18   -23    49 u=034 imp:n=1
03691   0                 -532    39   -21    48   -22    15 u=034 imp:n=1
03692   0                 -532    39   -25    18   -23    49 u=034 imp:n=1
03693   0                  -38    30   -21    48   -22    15 u=034 imp:n=1
03694   0                  -29    20   -21    48   -22    15 u=034 imp:n=1
03695   0                  -73   135   -48    18    -6    22 u=034 imp:n=1
03696   0                  -71   124   -48    18   -23    49 u=034 imp:n=1
03697   0                 -134   131   -48    18   -23    49 u=034 imp:n=1
03698   0                  -73   135   -48    18   -23    49 u=034 imp:n=1
03699   0                  -71   124   -48    18    -6    22 u=034 imp:n=1
03700   0                  -10    13   -14     4    -6     5 u=034 imp:n=1
03701   0                  -12     9   -14     4    -6     5 u=034 imp:n=1
03702   0                  -71   124   -48    26  -158    35 u=034 imp:n=1
03703   0                  -73   135   -48    26  -158    35 u=034 imp:n=1
03704   0                  -73   135   -48    18   -24    23 u=034 imp:n=1
03705   0                 -134   131   -48    18   -24    23 u=034 imp:n=1
03706   0                  -71   124   -48    18   -24    23 u=034 imp:n=1
```

```
03707   0                -532    39   -25    18   -24    23 u=034 imp:n=1
03708   0                 -71   124  -342    18   -49   158 u=034 imp:n=1
03709   0                 -47    46  -341    18   -49   158 u=034 imp:n=1
03710   0                 -73   135  -342    18   -49   158 u=034 imp:n=1
03711   0                 -71   124   -48   342   -49   158 u=034 imp:n=1
03712   0                 -73   135   -48   342   -49   158 u=034 imp:n=1
03713   0                 -38    30   -25    18   -24    23 u=034 imp:n=1
03714   0                -134    52   -21    18   -37    36 u=034 imp:n=1
03715   0                 -51   124   -21    48   -37    36 u=034 imp:n=1
03716   0                 -51    47   -48    18   -50    68 u=034 imp:n=1
03717   0                 -46    71   -48    18   -50    68 u=034 imp:n=1
03718   0                 -63    73   -48    18   -67    68 u=034 imp:n=1
03719   0                 -29    66   -48    18   -67    68 u=034 imp:n=1
03720   0                 -19    73   -48    18   -70    67 u=034 imp:n=1
03721   0                 -51    71   -48    18   -70    50 u=034 imp:n=1
03722   0                 -29    17   -48    18   -70    67 u=034 imp:n=1
03723   0                 -19    75   -48    18   -79    70 u=034 imp:n=1
03724   0                 -80    78   -48    18   -79    77 u=034 imp:n=1
03725   0                 -19    17   -14    48   -79    37 u=034 imp:n=1
03726   0                 -19    17   -14    18   -16    79 u=034 imp:n=1
03727   0                 -19    74   -48    18   -67    24 u=034 imp:n=1
03728   0                 -73   135   -48    18   -37    24 u=034 imp:n=1
03729   0                 -71   124   -48    18   -35    32 u=034 imp:n=1
03730   0                 -73   135   -48    18   -35    32 u=034 imp:n=1
03731   0                 -71   124   -48    18   -37    24 u=034 imp:n=1
03732   0                 -19   135   -21    48   -37    24 u=034 imp:n=1
03733   0                -134    52   -21    18   -36    24 u=034 imp:n=1
03734   0                -122    30   -21    18   -37    24 u=034 imp:n=1
03735   0                 -20    66   -48    18   -68    24 u=034 imp:n=1
03736   0                 -29    17   -21    48   -37    24 u=034 imp:n=1
03737   0                 -63   135   -21    25   -24    22 u=034 imp:n=1
03738   0                -134   131   -21    25   -24    22 u=034 imp:n=1
03739   0                 -51   124   -21    25   -36    22 u=034 imp:n=1
03740   0                -532    39   -21    25   -24    22 u=034 imp:n=1
03741   0                 -71   124   -48    18   -32    31 u=034 imp:n=1
03742   0                 -73   135   -48    18   -32    31 u=034 imp:n=1
03743   0                 -38    30   -21    25   -24    22 u=034 imp:n=1
03744   0                 -29    20   -21    25   -24    22 u=034 imp:n=1
03745   0                 -19    17   -14    21   -37    15 u=034 imp:n=1
03746   0                 -73   135   -26    18  -158    35 u=034 imp:n=1
03747   0                 -71   124   -26    18  -158    35 u=034 imp:n=1
03748   3  0.8540120E-01   -2     1    -4     3   -81    11 u=034  imp:n=1
03749   3  0.8540120E-01   -2     1    -8     7   -81    11 u=034  imp:n=1
03750   3  0.8540120E-01   -9     1    -7     4   -81    11 u=034  imp:n=1
03751   3  0.8540120E-01   -2    10    -7     4   -81    11 u=034  imp:n=1
03752  34  0.1035093E+00  -82     9   -83     4   -85    84 u=034  imp:n=1
03753   0                 -10     9    -7     4   -84    11 u=034 imp:n=1
03754   0                 -10     9    -7     4   -81    85 u=034 imp:n=1
03755   0                 -10     9    -7    83   -85    84 u=034 imp:n=1
03756   0                 -10    82   -83     4   -85    84 u=034 imp:n=1
03757   1  0.3030146E-01   -2     1    -4     3    -6     5 u=035  imp:n=1
03758   1  0.3030146E-01   -2     1    -8     7    -6     5 u=035  imp:n=1
03759   2  0.7570860E-01   -9     1    -7     4    -6     5 u=035  imp:n=1
03760   2  0.7570860E-01   -2    10    -7     4    -6     5 u=035  imp:n=1
03761   3  0.8540120E-01   -2     1    -4     3   -11     6 u=035  imp:n=1
03762   3  0.8540120E-01   -2     1    -8     7   -11     6 u=035  imp:n=1
03763   3  0.8540120E-01   -9     1    -7     4   -11     6 u=035  imp:n=1
03764   3  0.8540120E-01   -2    10    -7     4   -11     6 u=035  imp:n=1
03765   4  0.7332760E-01  -13    12   -14     4   -15     5 u=035  imp:n=1
03766   5  0.3966184E-01  -13    12   -14     4   -11    16 u=035  imp:n=1
03767   6  0.3747366E-01  -17    12   -14    18   -16    15 u=035  imp:n=1
03768   6  0.3747366E-01  -13    19   -14    18   -16    15 u=035  imp:n=1
03769   6  0.3747366E-01  -13    12   -18     4   -16    15 u=035  imp:n=1
03770  11  0.7961518E-01 -139   138   -21    18  -535   534 u=035  imp:n=1
03771  11  0.7961518E-01 -139   138   -21    18  -537   536 u=035  imp:n=1
03772  12  0.7714468E-01 -139   138   -21    25  -536   535 u=035  imp:n=1
03773  12  0.7714468E-01 -139   138   -26    18  -536   535 u=035  imp:n=1
03774  13  0.6712964E-01 -140   138   -25    26  -536   535 u=035  imp:n=1
03775  13  0.6712964E-01 -139   141   -25    26  -536   535 u=035  imp:n=1
03776  14  0.4579853E-01 -141   140   -25    26  -536   535 u=035  imp:n=1
03777  11  0.7961518E-01 -139   138   -21    18  -538   537 u=035  imp:n=1
03778  11  0.7961518E-01 -139   138   -21    18  -540   539 u=035  imp:n=1
03779  12  0.7714468E-01 -139   138   -21    25  -539   538 u=035  imp:n=1
03780  12  0.7714468E-01 -139   138   -26    18  -539   538 u=035  imp:n=1
03781  13  0.6712964E-01 -140   138   -25    26  -539   538 u=035  imp:n=1
03782  13  0.6712964E-01 -139   141   -25    26  -539   538 u=035  imp:n=1
```

```
03783  14  0.4579853E-01  -141   140   -25    26  -539   538 u=035  imp:n=1
03784  15  0.8003452E-01  -143   142   -21    18  -535   534 u=035  imp:n=1
03785  15  0.8003452E-01  -143   142   -21    18  -542   541 u=035  imp:n=1
03786  16  0.7744373E-01  -143   142   -21    25  -541   535 u=035  imp:n=1
03787  16  0.7744373E-01  -143   142   -26    18  -541   535 u=035  imp:n=1
03788  17  0.6733980E-01  -144   142   -25    26  -541   535 u=035  imp:n=1
03789  17  0.6733980E-01  -143   145   -25    26  -541   535 u=035  imp:n=1
03790  18  0.4487970E-01  -145   144   -25    26  -541   535 u=035  imp:n=1
03791  23  0.1232400E+00  -147   146   -48    18  -543   534 u=035  imp:n=1
03792  15  0.8003452E-01  -149   148   -21    18  -535   534 u=035  imp:n=1
03793  15  0.8003452E-01  -149   148   -21    18  -542   541 u=035  imp:n=1
03794  16  0.7744373E-01  -149   148   -21    25  -541   535 u=035  imp:n=1
03795  16  0.7744373E-01  -149   148   -26    18  -541   535 u=035  imp:n=1
03796  17  0.6733980E-01  -150   148   -25    26  -541   535 u=035  imp:n=1
03797  17  0.6733980E-01  -149   151   -25    26  -541   535 u=035  imp:n=1
03798  18  0.4487970E-01  -151   150   -25    26  -541   535 u=035  imp:n=1
03799  15  0.8003452E-01  -544   152   -21    18   -22    15 u=035  imp:n=1
03800  15  0.8003452E-01  -544   152   -21    18   -24    23 u=035  imp:n=1
03801  16  0.7744373E-01  -544   152   -21    25   -23    22 u=035  imp:n=1
03802  16  0.7744373E-01  -544   152   -26    18   -23    22 u=035  imp:n=1
03803  17  0.6733980E-01  -154   152   -25    26   -23    22 u=035  imp:n=1
03804  17  0.6733980E-01  -544   545   -25    26   -23    22 u=035  imp:n=1
03805  18  0.4487970E-01  -545   154   -25    26   -23    22 u=035  imp:n=1
03806  15  0.8003452E-01  -547   546   -21    18   -22    15 u=035  imp:n=1
03807  15  0.8003452E-01  -547   546   -21    18   -24    23 u=035  imp:n=1
03808  16  0.7744373E-01  -547   546   -21    25   -23    22 u=035  imp:n=1
03809  16  0.7744373E-01  -547   546   -26    18   -23    22 u=035  imp:n=1
03810  17  0.6733980E-01  -548   546   -25    26   -23    22 u=035  imp:n=1
03811  17  0.6733980E-01  -547   549   -25    26   -23    22 u=035  imp:n=1
03812  18  0.4487970E-01  -549   548   -25    26   -23    22 u=035  imp:n=1
03813  62  0.8630075E-01  -551   550   -48    18  -356    15 u=035  imp:n=1
03814  63  0.3112637E-01  -551   550   -48    18  -158   357 u=035  imp:n=1
03815  64  0.7416011E-01  -551   550   -48   251  -357   356 u=035  imp:n=1
03816  64  0.7416011E-01  -551   550  -252    18  -357   356 u=035  imp:n=1
03817  65  0.7056425E-01  -552   550  -251   252  -357   356 u=035  imp:n=1
03818  65  0.7056425E-01  -551   553  -251   252  -357   356 u=035  imp:n=1
03819   0                 -553   552  -251   252  -357   356 u=035 imp:n=1
03820  60  0.6601119E-01  -551   550  -342   341   -49   158 u=035  imp:n=1
03821  60  0.6601119E-01  -551   550   -48   344   -49   158 u=035  imp:n=1
03822  61  0.6601310E-01  -551   550  -344   342   -49   360 u=035  imp:n=1
03823  61  0.6601310E-01  -551   550  -344   342  -361   158 u=035  imp:n=1
03824   0                 -551   550  -344   342  -360   361 u=035 imp:n=1
03825  15  0.8003452E-01  -188   185   -21    18   -22    15 u=035  imp:n=1
03826  15  0.8003452E-01  -188   185   -21    18   -24    23 u=035  imp:n=1
03827  16  0.7744373E-01  -188   185   -21    25   -23    22 u=035  imp:n=1
03828  16  0.7744373E-01  -188   185   -26    18   -23    22 u=035  imp:n=1
03829  17  0.6733980E-01  -190   185   -25    26   -23    22 u=035  imp:n=1
03830  17  0.6733980E-01  -188   191   -25    26   -23    22 u=035  imp:n=1
03831  18  0.4487970E-01  -191   190   -25    26   -23    22 u=035  imp:n=1
03832  11  0.7961518E-01  -193   192   -21    18   -22    15 u=035  imp:n=1
03833  11  0.7961518E-01  -193   192   -21    18   -32    31 u=035  imp:n=1
03834  12  0.7714468E-01  -193   192   -21    25   -31    22 u=035  imp:n=1
03835  12  0.7714468E-01  -193   192   -26    18   -31    22 u=035  imp:n=1
03836  13  0.6712964E-01  -194   192   -25    26   -31    22 u=035  imp:n=1
03837  13  0.6712964E-01  -193   195   -25    26   -31    22 u=035  imp:n=1
03838  14  0.4579853E-01  -195   194   -25    26   -31    22 u=035  imp:n=1
03839  11  0.7961518E-01  -193   192   -21    18   -35    32 u=035  imp:n=1
03840  11  0.7961518E-01  -193   192   -21    18   -37    36 u=035  imp:n=1
03841  12  0.7714468E-01  -193   192   -21    25   -36    35 u=035  imp:n=1
03842  12  0.7714468E-01  -193   192   -26    18   -36    35 u=035  imp:n=1
03843  13  0.6712964E-01  -194   192   -25    26   -36    35 u=035  imp:n=1
03844  13  0.6712964E-01  -193   195   -25    26   -36    35 u=035  imp:n=1
03845  14  0.4579853E-01  -195   194   -25    26   -36    35 u=035  imp:n=1
03846  29  0.1183522E+00  -167   138   -48    18  -554   540 u=035  imp:n=1
03847  30  0.5464445E-01  -142   139   -48    18  -543   534 u=035  imp:n=1
03848  26  0.7164290E-01  -146   167   -48    18  -555   534 u=035  imp:n=1
03849  24  0.1232187E+00  -147   146   -48    18  -556   543 u=035  imp:n=1
03850  26  0.7164290E-01  -148   147   -48    18  -555   534 u=035  imp:n=1
03851  29  0.1183522E+00  -159   148   -48    18  -557   542 u=035  imp:n=1
03852  30  0.5464445E-01  -152   149   -48    18   -49    15 u=035  imp:n=1
03853  29  0.1183522E+00  -558   159   -48    18   -67    24 u=035  imp:n=1
03854  30  0.5464445E-01  -546   544   -48    18   -49    15 u=035  imp:n=1
03855  26  0.7164290E-01  -550   558   -48    18   -68    15 u=035  imp:n=1
03856  24  0.1232187E+00  -551   550   -48    18   -50    49 u=035  imp:n=1
03857  26  0.7164290E-01  -559   551   -48    18   -68    15 u=035  imp:n=1
03858  29  0.1183522E+00  -165   185   -48    18   -70    37 u=035  imp:n=1
```

```
03859  30  0.5464445E-01  -192   188   -48    18   -49    15 u=035  imp:n=1
03860  31  0.2714513E-01   -75    17   -48    18  -560   554 u=035  imp:n=1
03861  32  0.8823003E-01   -75    17   -48    18  -561   560 u=035  imp:n=1
03862  33  0.8829426E-01   -78    17   -48    18  -562   561 u=035  imp:n=1
03863  33  0.8829426E-01   -75    80   -48    18  -562   561 u=035  imp:n=1
03864   0                  -12     9   -14     4   -11     6 u=035 imp:n=1
03865   0                  -10    13   -14     4   -11     6 u=035 imp:n=1
03866   0                  -10     9    -7    14   -11     5 u=035 imp:n=1
03867   0                 -138    17   -21    18  -538     6 u=035 imp:n=1
03868   0                 -142   139   -21    48  -536     6 u=035 imp:n=1
03869   0                 -148   143   -21    48  -536     6 u=035 imp:n=1
03870   0                 -152   149   -21    48  -536     6 u=035 imp:n=1
03871   0                 -546   544   -21    48  -536     6 u=035 imp:n=1
03872   0                 -185   547   -21    48  -536     6 u=035 imp:n=1
03873   0                 -192   188   -25    48   -24    22 u=035 imp:n=1
03874   0                  -19   193   -25    48   -37    22 u=035 imp:n=1
03875   0                 -185   559   -48    18  -535   534 u=035 imp:n=1
03876   0                 -558   547   -48    18  -535   534 u=035 imp:n=1
03877   0                 -185   547   -21    48  -535   534 u=035 imp:n=1
03878   0                 -546   544   -21    48  -535   534 u=035 imp:n=1
03879   0                 -152   149   -21    48  -535   534 u=035 imp:n=1
03880   0                 -185   559   -48    18    -6   535 u=035 imp:n=1
03881   0                 -167   143   -48    18  -536     6 u=035 imp:n=1
03882   0                 -558   547   -48    18  -536     6 u=035 imp:n=1
03883   0                 -185   559   -48    18  -536     6 u=035 imp:n=1
03884   0                  -19   193  -251   252  -357   356 u=035 imp:n=1
03885   0                 -558   547   -48    18    -6   535 u=035 imp:n=1
03886   0                 -167   143   -48    18    -6   534 u=035 imp:n=1
03887   0                 -185   547   -21    48    -6   535 u=035 imp:n=1
03888   0                 -546   544   -21    48    -6   535 u=035 imp:n=1
03889   0                 -152   149   -21    48    -6   535 u=035 imp:n=1
03890   0                  -19   193  -252    26  -357    22 u=035 imp:n=1
03891   0                 -148   143   -21    48    -6   534 u=035 imp:n=1
03892   0                 -142   139   -21    48    -6   534 u=035 imp:n=1
03893   0                 -138    17   -21    18    -6   534 u=035 imp:n=1
03894   0                  -19   193   -48    18  -356    15 u=035 imp:n=1
03895   0                  -19   193   -21    48   -22    15 u=035 imp:n=1
03896   0                  -19   193   -48   251  -357   356 u=035 imp:n=1
03897   0                 -192   188   -21    48   -22    15 u=035 imp:n=1
03898   0                  -19   193  -252    18   -22   356 u=035 imp:n=1
03899   0                 -185   559   -48    18   -22    15 u=035 imp:n=1
03900   0                 -558   547   -48    18   -22    15 u=035 imp:n=1
03901   0                 -185   547   -21    48  -534    15 u=035 imp:n=1
03902   0                 -185   559   -48    18  -534    22 u=035 imp:n=1
03903   0                 -558   547   -48    18  -534    22 u=035 imp:n=1
03904   0                  -19   193   -26    18   -37    22 u=035 imp:n=1
03905   0                 -546   544   -21    48  -534    15 u=035 imp:n=1
03906   0                 -149    17   -48    18  -534    15 u=035 imp:n=1
03907   0                 -152    17   -21    48  -534    15 u=035 imp:n=1
03908   0                  -19    17   -14    21  -540    15 u=035 imp:n=1
03909   0                  -10    13   -14     4    -6     5 u=035 imp:n=1
03910   0                  -12     9   -14     4    -6     5 u=035 imp:n=1
03911   0                 -185   559   -48    26  -537   536 u=035 imp:n=1
03912   0                 -558   547   -48    26  -537   536 u=035 imp:n=1
03913   0                 -185   559   -48    26  -538   537 u=035 imp:n=1
03914   0                 -192   188   -21    25   -24    22 u=035 imp:n=1
03915   0                  -19   193   -21    25   -37    22 u=035 imp:n=1
03916   0                 -558   547   -48    26  -538   537 u=035 imp:n=1
03917   0                 -185   559   -48    18   -68   539 u=035 imp:n=1
03918   0                 -185   551   -48    18   -50    68 u=035 imp:n=1
03919   0                 -550   558   -48    18   -50    68 u=035 imp:n=1
03920   0                 -185   558   -48    18   -67    50 u=035 imp:n=1
03921   0                  -19   165   -48    18   -70   539 u=035 imp:n=1
03922   0                 -138    17   -21    18  -540   538 u=035 imp:n=1
03923   0                 -142   139   -25    26  -542   543 u=035 imp:n=1
03924   0                 -142   139   -25    48  -543   536 u=035 imp:n=1
03925   0                 -148   143   -25    48  -542   536 u=035 imp:n=1
03926   0                 -167   143   -48    26  -542   536 u=035 imp:n=1
03927   0                  -19   149   -25    48  -542    37 u=035 imp:n=1
03928   0                 -159   149   -48    26  -542    24 u=035 imp:n=1
03929   0                 -185   559   -48    26  -539    37 u=035 imp:n=1
03930   0                  -19   165   -48    26  -539    37 u=035 imp:n=1
03931   0                 -185   159   -48    18   -70    67 u=035 imp:n=1
03932   0                 -152   149   -25    48   -24   536 u=035 imp:n=1
03933   0                 -546   544   -25    48   -24   536 u=035 imp:n=1
03934   0                 -185   547   -25    48   -24   536 u=035 imp:n=1
```

```
03935   0                -148   147   -48    18  -556   555 u=035 imp:n=1
03936   0                -146   167   -48    18  -556   555 u=035 imp:n=1
03937   0                -192   149   -25    48   -37    24 u=035 imp:n=1
03938   0                 -19   159   -48    18  -557    70 u=035 imp:n=1
03939   0                -148   167   -48    18  -557   556 u=035 imp:n=1
03940   0                 -19   167   -48    18  -554   557 u=035 imp:n=1
03941   0                -138    17   -48    18  -554   540 u=035 imp:n=1
03942   0                 -19    75   -48    18  -562   554 u=035 imp:n=1
03943   0                 -80    78   -48    18  -562   561 u=035 imp:n=1
03944   0                 -19    17   -14    48  -562   540 u=035 imp:n=1
03945   0                 -19    17   -14    18   -16   562 u=035 imp:n=1
03946   0                 -19   149   -21    25  -542    37 u=035 imp:n=1
03947   0                -192   149   -21    25   -37    24 u=035 imp:n=1
03948   0                -152   149   -48    26   -24    49 u=035 imp:n=1
03949   0                -546   544   -48    26   -24    49 u=035 imp:n=1
03950   0                -558   547   -48    26  -158   538 u=035 imp:n=1
03951   0                -185   559   -48    26  -158   538 u=035 imp:n=1
03952   0                -185   547   -21    25   -24   536 u=035 imp:n=1
03953   0                -546   544   -21    25   -24   536 u=035 imp:n=1
03954   0                -152   149   -21    25   -24   536 u=035 imp:n=1
03955   0                -148   143   -21    25  -542   536 u=035 imp:n=1
03956   0                -142   139   -21    25  -542   536 u=035 imp:n=1
03957   0                -192   559   -26    18   -37    24 u=035 imp:n=1
03958   0                -192   188   -26    18   -24    49 u=035 imp:n=1
03959   0                -558   547   -48    26   -24    49 u=035 imp:n=1
03960   0                -185   559   -48    26   -24    49 u=035 imp:n=1
03961   0                -192   188   -48    26   -24    49 u=035 imp:n=1
03962   0                 -19   193   -48    26   -37    49 u=035 imp:n=1
03963   0                -558   547  -342    26   -49   158 u=035 imp:n=1
03964   0                -551   550  -341    18   -49   158 u=035 imp:n=1
03965   0                -185   559  -342    18   -49   158 u=035 imp:n=1
03966   0                 -19   193  -342    26   -49   158 u=035 imp:n=1
03967   0                -558   547   -48   342   -49   158 u=035 imp:n=1
03968   0                -185   559   -48   342   -49   158 u=035 imp:n=1
03969   0                 -19   193   -48   342   -49   158 u=035 imp:n=1
03970   0                -185   559   -26    18   -24    49 u=035 imp:n=1
03971   0                -185   559   -26    18  -158   536 u=035 imp:n=1
03972   0                -558   547   -26    18   -24   536 u=035 imp:n=1
03973   0                -546   544   -26    18   -24    49 u=035 imp:n=1
03974   0                -152   149   -26    18   -24    49 u=035 imp:n=1
03975   0                 -19   165   -26    18  -539    37 u=035 imp:n=1
03976   0                -185   559   -26    18  -539    37 u=035 imp:n=1
03977   0                -159   149   -26    18  -542    24 u=035 imp:n=1
03978   0                -167   143   -26    18  -542   536 u=035 imp:n=1
03979   0                -142   139   -26    18  -542   543 u=035 imp:n=1
03980   0                -167   139   -48    18  -540   542 u=035 imp:n=1
03981   0                 -19   139   -21    48  -540   542 u=035 imp:n=1
03982   0                -192   559   -48    26   -37    24 u=035 imp:n=1
03983   0                 -19   193   -48    26  -158   357 u=035 imp:n=1
03984   3  0.8540120E-01    -2     1    -4     3   -81    11 u=035  imp:n=1
03985   3  0.8540120E-01    -2     1    -8     7   -81    11 u=035  imp:n=1
03986   3  0.8540120E-01    -9     1    -7     4   -81    11 u=035  imp:n=1
03987   3  0.8540120E-01    -2    10    -7     4   -81    11 u=035  imp:n=1
03988  34  0.1035093E+00   -82     9   -83     4   -85    84 u=035  imp:n=1
03989   0                  -10     9    -7     4   -84    11 u=035 imp:n=1
03990   0                  -10     9    -7     4   -81    85 u=035 imp:n=1
03991   0                  -10     9    -7    83   -85    84 u=035 imp:n=1
03992   0                  -10    82   -83     4   -85    84 u=035 imp:n=1
03993   1  0.3030146E-01    -2     1    -4     3   -81   563 u=036  imp:n=1
03994   1  0.3030146E-01    -2     1    -8     7   -81   563 u=036  imp:n=1
03995   2  0.7570860E-01    -9     1    -7     4   -81   563 u=036  imp:n=1
03996   2  0.7570860E-01    -2    10    -7     4   -81   563 u=036  imp:n=1
03997   3  0.8540120E-01    -2     1    -4     3  -563   564 u=036  imp:n=1
03998   3  0.8540120E-01    -2     1    -8     7  -563   564 u=036  imp:n=1
03999   3  0.8540120E-01    -9     1    -7     4  -563   564 u=036  imp:n=1
04000   3  0.8540120E-01    -2    10    -7     4  -563   564 u=036  imp:n=1
04001   4  0.7332760E-01   -13    12   -14     4   -81   565 u=036  imp:n=1
04002   5  0.3966184E-01   -13    12   -14     4  -566   564 u=036  imp:n=1
04003   6  0.3747366E-01   -13    19   -14    18  -565   566 u=036  imp:n=1
04004   6  0.3747366E-01   -17    12   -14    18  -565   566 u=036  imp:n=1
04005   6  0.3747366E-01   -13    12   -18     4  -565   566 u=036  imp:n=1
04006   7  0.8235419E-01   -19    63   -21    18  -565   567 u=036  imp:n=1
04007   7  0.8235419E-01   -19    63   -21    18  -568   569 u=036  imp:n=1
04008   8  0.7986135E-01   -19    63   -21    25  -567   568 u=036  imp:n=1
04009   8  0.7986135E-01   -19    63   -26    18  -567   568 u=036  imp:n=1
04010   9  0.6943934E-01   -19    65   -25    26  -567   568 u=036  imp:n=1
```

```
04011   9  0.6943934E-01   -64    63   -25    26  -567   568 u=036  imp:n=1
04012  10  0.4603587E-01   -65    64   -25    26  -567   568 u=036  imp:n=1
04013  11  0.7961518E-01   -73   570   -21    18  -565   567 u=036  imp:n=1
04014  11  0.7961518E-01   -73   570   -21    18  -571   572 u=036  imp:n=1
04015  12  0.7714468E-01   -73   570   -21    25  -567   571 u=036  imp:n=1
04016  12  0.7714468E-01   -73   570   -26    18  -567   571 u=036  imp:n=1
04017  13  0.6712964E-01   -73   573   -25    26  -567   571 u=036  imp:n=1
04018  13  0.6712964E-01  -574   570   -25    26  -567   571 u=036  imp:n=1
04019  14  0.4579853E-01  -573   574   -25    26  -567   571 u=036  imp:n=1
04020  11  0.7961518E-01   -73   570   -21    18  -572   575 u=036  imp:n=1
04021  11  0.7961518E-01   -73   570   -21    18  -576   577 u=036  imp:n=1
04022  12  0.7714468E-01   -73   570   -21    25  -575   576 u=036  imp:n=1
04023  12  0.7714468E-01   -73   570   -26    18  -575   576 u=036  imp:n=1
04024  13  0.6712964E-01   -73   573   -25    26  -575   576 u=036  imp:n=1
04025  13  0.6712964E-01  -574   570   -25    26  -575   576 u=036  imp:n=1
04026  14  0.4579853E-01  -573   574   -25    26  -575   576 u=036  imp:n=1
04027  15  0.8003452E-01  -579   578   -21    18  -565   567 u=036  imp:n=1
04028  15  0.8003452E-01  -579   578   -21    18  -568   569 u=036  imp:n=1
04029  16  0.7744373E-01  -579   578   -21    25  -567   568 u=036  imp:n=1
04030  16  0.7744373E-01  -579   578   -26    18  -567   568 u=036  imp:n=1
04031  17  0.6733980E-01  -579   580   -25    26  -567   568 u=036  imp:n=1
04032  17  0.6733980E-01  -581   578   -25    26  -567   568 u=036  imp:n=1
04033  18  0.4487970E-01  -580   581   -25    26  -567   568 u=036  imp:n=1
04034  19  0.7776510E-01  -583   582   -21    18  -565   567 u=036  imp:n=1
04035  19  0.7776510E-01  -583   582   -21    18  -571   572 u=036  imp:n=1
04036  20  0.7523151E-01  -583   582   -21    25  -567   571 u=036  imp:n=1
04037  20  0.7523151E-01  -583   582   -26    18  -567   571 u=036  imp:n=1
04038  21  0.6542969E-01  -583   584   -25    26  -567   571 u=036  imp:n=1
04039  21  0.6542969E-01  -585   582   -25    26  -567   571 u=036  imp:n=1
04040  22  0.4487471E-01  -584   585   -25    26  -567   571 u=036  imp:n=1
04041  19  0.7776510E-01  -583   582   -21    18  -572   575 u=036  imp:n=1
04042  19  0.7776510E-01  -583   582   -21    18  -576   577 u=036  imp:n=1
04043  20  0.7523151E-01  -583   582   -21    25  -575   576 u=036  imp:n=1
04044  20  0.7523151E-01  -583   582   -26    18  -575   576 u=036  imp:n=1
04045  21  0.6542969E-01  -583   584   -25    26  -575   576 u=036  imp:n=1
04046  21  0.6542969E-01  -585   582   -25    26  -575   576 u=036  imp:n=1
04047  22  0.4487471E-01  -584   585   -25    26  -575   576 u=036  imp:n=1
04048  23  0.1232400E+00   -47    46   -48    18  -565   586 u=036  imp:n=1
04049  24  0.1232187E+00   -47    46   -48    18  -586   587 u=036  imp:n=1
04050  19  0.7776510E-01   -71   588   -21    18  -565   567 u=036  imp:n=1
04051  19  0.7776510E-01   -71   588   -21    18  -571   572 u=036  imp:n=1
04052  20  0.7523151E-01   -71   588   -21    25  -567   571 u=036  imp:n=1
04053  20  0.7523151E-01   -71   588   -26    18  -567   571 u=036  imp:n=1
04054  21  0.6542969E-01   -71   589   -25    26  -567   571 u=036  imp:n=1
04055  21  0.6542969E-01  -590   588   -25    26  -567   571 u=036  imp:n=1
04056  22  0.4487471E-01  -589   590   -25    26  -567   571 u=036  imp:n=1
04057  19  0.7776510E-01   -71   588   -21    18  -572   575 u=036  imp:n=1
04058  19  0.7776510E-01   -71   588   -21    18  -576   577 u=036  imp:n=1
04059  20  0.7523151E-01   -71   588   -21    25  -575   576 u=036  imp:n=1
04060  20  0.7523151E-01   -71   588   -26    18  -575   576 u=036  imp:n=1
04061  21  0.6542969E-01   -71   589   -25    26  -575   576 u=036  imp:n=1
04062  21  0.6542969E-01  -590   588   -25    26  -575   576 u=036  imp:n=1
04063  22  0.4487471E-01  -589   590   -25    26  -575   576 u=036  imp:n=1
04064  15  0.8003452E-01  -592   591   -21    18  -565   567 u=036  imp:n=1
04065  15  0.8003452E-01  -592   591   -21    18  -568   569 u=036  imp:n=1
04066  16  0.7744373E-01  -592   591   -21    25  -567   568 u=036  imp:n=1
04067  16  0.7744373E-01  -592   591   -26    18  -567   568 u=036  imp:n=1
04068  17  0.6733980E-01  -592   593   -25    26  -567   568 u=036  imp:n=1
04069  17  0.6733980E-01  -594   591   -25    26  -567   568 u=036  imp:n=1
04070  18  0.4487970E-01  -593   594   -25    26  -567   568 u=036  imp:n=1
04071  11  0.7961518E-01  -596   595   -21    18  -565   567 u=036  imp:n=1
04072  11  0.7961518E-01  -596   595   -21    18  -571   572 u=036  imp:n=1
04073  12  0.7714468E-01  -596   595   -21    25  -567   571 u=036  imp:n=1
04074  12  0.7714468E-01  -596   595   -26    18  -567   571 u=036  imp:n=1
04075  13  0.6712964E-01  -596   597   -25    26  -567   571 u=036  imp:n=1
04076  13  0.6712964E-01  -598   595   -25    26  -567   571 u=036  imp:n=1
04077  14  0.4579853E-01  -597   598   -25    26  -567   571 u=036  imp:n=1
04078  11  0.7961518E-01  -596   595   -21    18  -572   575 u=036  imp:n=1
04079  11  0.7961518E-01  -596   595   -21    18  -576   577 u=036  imp:n=1
04080  12  0.7714468E-01  -596   595   -21    25  -575   576 u=036  imp:n=1
04081  12  0.7714468E-01  -596   595   -26    18  -575   576 u=036  imp:n=1
04082  13  0.6712964E-01  -596   597   -25    26  -575   576 u=036  imp:n=1
04083  13  0.6712964E-01  -598   595   -25    26  -575   576 u=036  imp:n=1
04084  14  0.4579853E-01  -597   598   -25    26  -575   576 u=036  imp:n=1
04085   7  0.8235419E-01   -20    17   -21    18  -565   567 u=036  imp:n=1
04086   7  0.8235419E-01   -20    17   -21    18  -568   569 u=036  imp:n=1
```

```
04087   8  0.7986135E-01   -20    17   -21    25  -567   568 u=036  imp:n=1
04088   8  0.7986135E-01   -20    17   -26    18  -567   568 u=036  imp:n=1
04089   9  0.6943934E-01   -20    28   -25    26  -567   568 u=036  imp:n=1
04090   9  0.6943934E-01   -27    17   -25    26  -567   568 u=036  imp:n=1
04091  10  0.4603587E-01   -28    27   -25    26  -567   568 u=036  imp:n=1
04092  25  0.1201037E+00   -19   599   -48    18  -569   600 u=036  imp:n=1
04093  26  0.7164290E-01   -63    73   -48    18  -565   601 u=036  imp:n=1
04094  27  0.1212447E+00   -73    72   -48    18  -577   602 u=036  imp:n=1
04095  28  0.1187656E+00  -570   579   -48    18  -565   586 u=036  imp:n=1
04096  29  0.1183522E+00   -72    51   -48    18  -577   602 u=036  imp:n=1
04097  30  0.5464445E-01  -578   583   -48    18  -565   586 u=036  imp:n=1
04098  26  0.7164290E-01   -51    47   -48    18  -565   601 u=036  imp:n=1
04099  26  0.7164290E-01   -46    71   -48    18  -565   601 u=036  imp:n=1
04100  29  0.1183522E+00   -71    69   -48    18  -577   602 u=036  imp:n=1
04101  30  0.5464445E-01  -588   592   -48    18  -565   586 u=036  imp:n=1
04102  27  0.1212447E+00   -69    29   -48    18  -577   602 u=036  imp:n=1
04103  28  0.1187656E+00  -591   596   -48    18  -565   586 u=036  imp:n=1
04104  26  0.7164290E-01   -29    20   -48    18  -565   601 u=036  imp:n=1
04105  25  0.1201037E+00   -20   603   -48    18  -569   600 u=036  imp:n=1
04106  31  0.2714513E-01   -19   604   -48    18  -602   605 u=036  imp:n=1
04107  32  0.8823003E-01   -75    17   -48    18  -605   606 u=036  imp:n=1
04108  33  0.8829426E-01   -78    17   -48    18  -606   607 u=036  imp:n=1
04109  33  0.8829426E-01   -75    80   -48    18  -606   607 u=036  imp:n=1
04110   0                  -12     9   -14     4  -563   564 u=036 imp:n=1
04111   0                  -10    13   -14     4  -563   564 u=036 imp:n=1
04112   0                  -10     9    -7    14   -81   564 u=036 imp:n=1
04113   0                 -595    20   -25    48  -567   569 u=036 imp:n=1
04114   0                 -591   596   -25    48  -567   569 u=036 imp:n=1
04115   0                 -588   592   -25    48  -567   569 u=036 imp:n=1
04116   0                 -582    71   -25    48  -567   576 u=036 imp:n=1
04117   0                 -595    29   -48    26  -567   576 u=036 imp:n=1
04118   0                 -582    51   -48    26  -567   576 u=036 imp:n=1
04119   0                 -578   583   -25    48  -567   586 u=036 imp:n=1
04120   0                 -570   579   -25    48  -567   586 u=036 imp:n=1
04121   0                  -63    73   -25    48  -567   569 u=036 imp:n=1
04122   0                  -63    73   -21    48  -565   567 u=036 imp:n=1
04123   0                 -570   579   -21    48  -565   567 u=036 imp:n=1
04124   0                 -578   583   -21    48  -565   567 u=036 imp:n=1
04125   0                 -582    51   -48    18  -565   567 u=036 imp:n=1
04126   0                 -595    29   -48    18  -565   567 u=036 imp:n=1
04127   0                 -591   596   -48    18  -586   568 u=036 imp:n=1
04128   0                 -588   592   -48    18  -586   568 u=036 imp:n=1
04129   0                 -582    71   -21    48  -565   567 u=036 imp:n=1
04130   0                 -588   592   -21    48  -565   567 u=036 imp:n=1
04131   0                 -591   596   -21    48  -565   567 u=036 imp:n=1
04132   0                 -595    20   -21    48  -565   567 u=036 imp:n=1
04133   0                  -10    13   -14     4   -81   563 u=036 imp:n=1
04134   0                  -12     9   -14     4   -81   563 u=036 imp:n=1
04135   0                 -578   583   -25    18  -586   568 u=036 imp:n=1
04136   0                 -570   579   -25    18  -568   569 u=036 imp:n=1
04137   0                 -570   579   -25    18  -586   568 u=036 imp:n=1
04138   0                 -578   583   -25    18  -568   569 u=036 imp:n=1
04139   0                 -588   592   -48    18  -568   569 u=036 imp:n=1
04140   0                 -591   596   -48    18  -568   569 u=036 imp:n=1
04141   0                 -582    51   -48    18  -576   577 u=036 imp:n=1
04142   0                 -595    29   -48    18  -576   577 u=036 imp:n=1
04143   0                 -582    71   -21    48  -576   577 u=036 imp:n=1
04144   0                 -588   596   -21    18  -576   577 u=036 imp:n=1
04145   0                  -51    47   -48    18  -601   587 u=036 imp:n=1
04146   0                  -46    71   -48    18  -601   587 u=036 imp:n=1
04147   0                 -599    73   -48    18  -601   600 u=036 imp:n=1
04148   0                  -29    20   -48    18  -601   600 u=036 imp:n=1
04149   0                  -19    73   -48    18  -600   602 u=036 imp:n=1
04150   0                  -51    71   -48    18  -587   602 u=036 imp:n=1
04151   0                  -29    17   -48    18  -600   602 u=036 imp:n=1
04152   0                 -604    17   -48    18  -602   605 u=036 imp:n=1
04153   0                  -19    75   -48    18  -605   607 u=036 imp:n=1
04154   0                  -80    78   -48    18  -606   607 u=036 imp:n=1
04155   0                  -19    17   -14    48  -577   607 u=036 imp:n=1
04156   0                  -19    17   -14    18  -607   566 u=036 imp:n=1
04157   0                 -599    63   -48    18  -569   601 u=036 imp:n=1
04158   0                 -595    29   -26    18  -567   576 u=036 imp:n=1
04159   0                 -582    51   -26    18  -567   576 u=036 imp:n=1
04160   0                  -19    73   -21    48  -569   577 u=036 imp:n=1
04161   0                 -570   583   -21    18  -569   577 u=036 imp:n=1
04162   0                 -603    17   -48    18  -569   600 u=036 imp:n=1
```

```
04163   0                -588   596   -21    18  -569   576 u=036 imp:n=1
04164   0                -595    17   -21    48  -569   577 u=036 imp:n=1
04165   0                 -63    73   -21    25  -567   569 u=036 imp:n=1
04166   0                -570   579   -21    25  -567   569 u=036 imp:n=1
04167   0                -578   583   -21    25  -567   569 u=036 imp:n=1
04168   0                -582    71   -21    25  -567   576 u=036 imp:n=1
04169   0                -588   592   -21    25  -567   569 u=036 imp:n=1
04170   0                -591   596   -21    25  -567   569 u=036 imp:n=1
04171   0                -595    20   -21    25  -567   569 u=036 imp:n=1
04172   0                 -19    17   -14    21  -565   577 u=036 imp:n=1
04173   3  0.8540120E-01    -2     1    -4     3  -564     5 u=036  imp:n=1
04174   3  0.8540120E-01    -2     1    -8     7  -564     5 u=036  imp:n=1
04175   3  0.8540120E-01    -9     1    -7     4  -564     5 u=036  imp:n=1
04176   3  0.8540120E-01    -2    10    -7     4  -564     5 u=036  imp:n=1
04177  34  0.1035093E+00   -10   608   -83     4  -609   610 u=036  imp:n=1
04178   0                 -10     9    -7     4  -564   609 u=036 imp:n=1
04179   0                 -10     9    -7     4  -610     5 u=036 imp:n=1
04180   0                 -10     9    -7    83  -609   610 u=036 imp:n=1
04181   0                -608     9   -83     4  -609   610 u=036 imp:n=1
04182   1  0.3030146E-01    -2     1    -4     3   -81   563 u=037  imp:n=1
04183   1  0.3030146E-01    -2     1    -8     7   -81   563 u=037  imp:n=1
04184   2  0.7570860E-01    -9     1    -7     4   -81   563 u=037  imp:n=1
04185   2  0.7570860E-01    -2    10    -7     4   -81   563 u=037  imp:n=1
04186   3  0.8540120E-01    -2     1    -4     3  -563   564 u=037  imp:n=1
04187   3  0.8540120E-01    -2     1    -8     7  -563   564 u=037  imp:n=1
04188   3  0.8540120E-01    -9     1    -7     4  -563   564 u=037  imp:n=1
04189   3  0.8540120E-01    -2    10    -7     4  -563   564 u=037  imp:n=1
04190   4  0.7332760E-01   -13    12   -14     4   -81   565 u=037  imp:n=1
04191   5  0.3966184E-01   -13    12   -14     4  -566   564 u=037  imp:n=1
04192   6  0.3747366E-01   -13    19   -14    18  -565   566 u=037  imp:n=1
04193   6  0.3747366E-01   -17    12   -14    18  -565   566 u=037  imp:n=1
04194   6  0.3747366E-01   -13    12   -18     4  -565   566 u=037  imp:n=1
04195  11  0.7961518E-01  -121   611   -21    18  -565   567 u=037  imp:n=1
04196  11  0.7961518E-01  -121   611   -21    18  -571   572 u=037  imp:n=1
04197  12  0.7714468E-01  -121   611   -21    25  -567   571 u=037  imp:n=1
04198  12  0.7714468E-01  -121   611   -26    18  -567   571 u=037  imp:n=1
04199  13  0.6712964E-01  -121   612   -25    26  -567   571 u=037  imp:n=1
04200  13  0.6712964E-01  -613   611   -25    26  -567   571 u=037  imp:n=1
04201  14  0.4579853E-01  -612   613   -25    26  -567   571 u=037  imp:n=1
04202  11  0.7961518E-01  -121   611   -21    18  -572   575 u=037  imp:n=1
04203  11  0.7961518E-01  -121   611   -21    18  -576   577 u=037  imp:n=1
04204  12  0.7714468E-01  -121   611   -21    25  -575   576 u=037  imp:n=1
04205  12  0.7714468E-01  -121   611   -26    18  -575   576 u=037  imp:n=1
04206  13  0.6712964E-01  -121   612   -25    26  -575   576 u=037  imp:n=1
04207  13  0.6712964E-01  -613   611   -25    26  -575   576 u=037  imp:n=1
04208  14  0.4579853E-01  -612   613   -25    26  -575   576 u=037  imp:n=1
04209  15  0.8003452E-01  -615   614   -21    18  -565   567 u=037  imp:n=1
04210  15  0.8003452E-01  -615   614   -21    18  -568   569 u=037  imp:n=1
04211  16  0.7744373E-01  -615   614   -21    25  -567   568 u=037  imp:n=1
04212  16  0.7744373E-01  -615   614   -26    18  -567   568 u=037  imp:n=1
04213  17  0.6733980E-01  -615   616   -25    26  -567   568 u=037  imp:n=1
04214  17  0.6733980E-01  -617   614   -25    26  -567   568 u=037  imp:n=1
04215  18  0.4487970E-01  -616   617   -25    26  -567   568 u=037  imp:n=1
04216  15  0.8003452E-01  -118   618   -21    18  -565   567 u=037  imp:n=1
04217  15  0.8003452E-01  -118   618   -21    18  -568   569 u=037  imp:n=1
04218  16  0.7744373E-01  -118   618   -21    25  -567   568 u=037  imp:n=1
04219  16  0.7744373E-01  -118   618   -26    18  -567   568 u=037  imp:n=1
04220  17  0.6733980E-01  -118   619   -25    26  -567   568 u=037  imp:n=1
04221  17  0.6733980E-01  -620   618   -25    26  -567   568 u=037  imp:n=1
04222  18  0.4487970E-01  -619   620   -25    26  -567   568 u=037  imp:n=1
04223  15  0.8003452E-01  -622   621   -21    18  -565   567 u=037  imp:n=1
04224  15  0.8003452E-01  -622   621   -21    18  -568   569 u=037  imp:n=1
04225  16  0.7744373E-01  -622   621   -21    25  -567   568 u=037  imp:n=1
04226  16  0.7744373E-01  -622   621   -26    18  -567   568 u=037  imp:n=1
04227  17  0.6733980E-01  -622   623   -25    26  -567   568 u=037  imp:n=1
04228  17  0.6733980E-01  -624   621   -25    26  -567   568 u=037  imp:n=1
04229  18  0.4487970E-01  -623   624   -25    26  -567   568 u=037  imp:n=1
04230  15  0.8003452E-01  -626   625   -21    18  -565   567 u=037  imp:n=1
04231  15  0.8003452E-01  -626   625   -21    18  -568   569 u=037  imp:n=1
04232  16  0.7744373E-01  -626   625   -21    25  -567   568 u=037  imp:n=1
04233  16  0.7744373E-01  -626   625   -26    18  -567   568 u=037  imp:n=1
04234  17  0.6733980E-01  -626   627   -25    26  -567   568 u=037  imp:n=1
04235  17  0.6733980E-01  -628   625   -25    26  -567   568 u=037  imp:n=1
04236  18  0.4487970E-01  -627   628   -25    26  -567   568 u=037  imp:n=1
04237  15  0.8003452E-01  -114   629   -21    18  -565   567 u=037  imp:n=1
04238  15  0.8003452E-01  -114   629   -21    18  -568   569 u=037  imp:n=1
```

```
04239  16  0.7744373E-01  -114   629   -21    25  -567   568 u=037  imp:n=1
04240  16  0.7744373E-01  -114   629   -26    18  -567   568 u=037  imp:n=1
04241  17  0.6733980E-01  -114   630   -25    26  -567   568 u=037  imp:n=1
04242  17  0.6733980E-01  -631   629   -25    26  -567   568 u=037  imp:n=1
04243  18  0.4487970E-01  -630   631   -25    26  -567   568 u=037  imp:n=1
04244  11  0.7961518E-01  -633   632   -21    18  -565   567 u=037  imp:n=1
04245  11  0.7961518E-01  -633   632   -21    18  -571   572 u=037  imp:n=1
04246  12  0.7714468E-01  -633   632   -21    25  -567   571 u=037  imp:n=1
04247  12  0.7714468E-01  -633   632   -26    18  -567   571 u=037  imp:n=1
04248  13  0.6712964E-01  -633   634   -25    26  -567   571 u=037  imp:n=1
04249  13  0.6712964E-01  -635   632   -25    26  -567   571 u=037  imp:n=1
04250  14  0.4579853E-01  -634   635   -25    26  -567   571 u=037  imp:n=1
04251  11  0.7961518E-01  -633   632   -21    18  -572   575 u=037  imp:n=1
04252  11  0.7961518E-01  -633   632   -21    18  -576   577 u=037  imp:n=1
04253  12  0.7714468E-01  -633   632   -21    25  -575   576 u=037  imp:n=1
04254  12  0.7714468E-01  -633   632   -26    18  -575   576 u=037  imp:n=1
04255  13  0.6712964E-01  -633   634   -25    26  -575   576 u=037  imp:n=1
04256  13  0.6712964E-01  -635   632   -25    26  -575   576 u=037  imp:n=1
04257  14  0.4579853E-01  -634   635   -25    26  -575   576 u=037  imp:n=1
04258  29  0.1183522E+00  -121   106   -48    18  -577   602 u=037  imp:n=1
04259  30  0.5464445E-01  -611   615   -48    18  -565   586 u=037  imp:n=1
04260  26  0.7164290E-01  -106   120   -48    18  -565   601 u=037  imp:n=1
04261  23  0.1232400E+00  -120   119   -48    18  -565   586 u=037  imp:n=1
04262  24  0.1232187E+00  -120   119   -48    18  -586   587 u=037  imp:n=1
04263  26  0.7164290E-01  -119   118   -48    18  -565   601 u=037  imp:n=1
04264  29  0.1183522E+00  -118   117   -48    18  -569   600 u=037  imp:n=1
04265  30  0.5464445E-01  -618   622   -48    18  -565   586 u=037  imp:n=1
04266  29  0.1183522E+00  -117    94   -48    18  -569   600 u=037  imp:n=1
04267  30  0.5464445E-01  -621   626   -48    18  -565   586 u=037  imp:n=1
04268  26  0.7164290E-01   -94   116   -48    18  -565   601 u=037  imp:n=1
04269  23  0.1232400E+00  -116   115   -48    18  -565   586 u=037  imp:n=1
04270  24  0.1232187E+00  -116   115   -48    18  -586   587 u=037  imp:n=1
04271  26  0.7164290E-01  -115   114   -48    18  -565   601 u=037  imp:n=1
04272  29  0.1183522E+00  -114    86   -48    18  -577   602 u=037  imp:n=1
04273  30  0.5464445E-01  -629   633   -48    18  -565   586 u=037  imp:n=1
04274  31  0.2714513E-01   -19   604   -48    18  -602   605 u=037  imp:n=1
04275  32  0.8823003E-01   -75    17   -48    18  -605   606 u=037  imp:n=1
04276  33  0.8829426E-01   -78    17   -48    18  -606   607 u=037  imp:n=1
04277  33  0.8829426E-01   -75    80   -48    18  -606   607 u=037  imp:n=1
04278   0                  -12     9   -14     4  -563   564 u=037 imp:n=1
04279   0                  -10    13   -14     4  -563   564 u=037 imp:n=1
04280   0                  -10     9    -7    14   -81   564 u=037 imp:n=1
04281   0                 -632    17   -21    18  -563   571 u=037 imp:n=1
04282   0                 -629   633   -21    48  -563   571 u=037 imp:n=1
04283   0                 -625   114   -21    48  -563   571 u=037 imp:n=1
04284   0                 -625    94   -48    18  -563   571 u=037 imp:n=1
04285   0                 -621   626   -21    48  -563   571 u=037 imp:n=1
04286   0                 -618   622   -21    48  -563   571 u=037 imp:n=1
04287   0                 -614   118   -21    48  -563   571 u=037 imp:n=1
04288   0                 -614   106   -48    18  -563   571 u=037 imp:n=1
04289   0                 -611   615   -21    48  -563   571 u=037 imp:n=1
04290   0                  -19   121   -21    18  -563   575 u=037 imp:n=1
04291   0                  -19   121   -21    18  -565   563 u=037 imp:n=1
04292   0                 -611   615   -21    48  -565   563 u=037 imp:n=1
04293   0                 -614   106   -48    18  -565   563 u=037 imp:n=1
04294   0                 -614   118   -21    48  -565   563 u=037 imp:n=1
04295   0                  -19    17   -14    21  -565   577 u=037 imp:n=1
04296   0                 -618   622   -21    48  -565   563 u=037 imp:n=1
04297   0                 -621   626   -21    48  -565   563 u=037 imp:n=1
04298   0                 -625    94   -48    18  -565   563 u=037 imp:n=1
04299   0                 -625   114   -21    48  -565   563 u=037 imp:n=1
04300   0                 -629   633   -21    48  -565   563 u=037 imp:n=1
04301   0                 -632    17   -21    18  -565   563 u=037 imp:n=1
04302   0                  -10    13   -14     4   -81   563 u=037 imp:n=1
04303   0                  -12     9   -14     4   -81   563 u=037 imp:n=1
04304   0                 -632    17   -25    26  -571   576 u=037 imp:n=1
04305   0                 -629   633   -25    26  -586   569 u=037 imp:n=1
04306   0                 -629   633   -25    48  -571   586 u=037 imp:n=1
04307   0                 -625   114   -25    48  -571   569 u=037 imp:n=1
04308   0                 -625    94   -48    26  -571   569 u=037 imp:n=1
04309   0                 -621   626   -25    26  -586   569 u=037 imp:n=1
04310   0                 -621   626   -25    48  -571   586 u=037 imp:n=1
04311   0                 -618   622   -25    26  -586   569 u=037 imp:n=1
04312   0                 -618   622   -25    48  -571   586 u=037 imp:n=1
04313   0                 -614   118   -25    48  -571   569 u=037 imp:n=1
04314   0                 -614   106   -48    26  -571   569 u=037 imp:n=1
```

```
04315   0                -611   615   -25    26  -586   569 u=037 imp:n=1
04316   0                -611   615   -25    48  -571   586 u=037 imp:n=1
04317   0                -611   633   -21    48  -569   577 u=037 imp:n=1
04318   0                -114   633   -48    18  -569   577 u=037 imp:n=1
04319   0                -611   106   -48    18  -569   577 u=037 imp:n=1
04320   0                -632    17   -21    18  -576   577 u=037 imp:n=1
04321   0                 -19   121   -48    18  -577   602 u=037 imp:n=1
04322   0                -106   120   -48    18  -601   587 u=037 imp:n=1
04323   0                -119   118   -48    18  -601   587 u=037 imp:n=1
04324   0                 -94   116   -48    18  -601   587 u=037 imp:n=1
04325   0                -115   114   -48    18  -601   587 u=037 imp:n=1
04326   0                -106   118   -48    18  -587   600 u=037 imp:n=1
04327   0                 -94   114   -48    18  -587   600 u=037 imp:n=1
04328   0                -106   114   -48    18  -600   602 u=037 imp:n=1
04329   0                 -19   121   -21    18  -575   577 u=037 imp:n=1
04330   0                -632    17   -26    18  -571   576 u=037 imp:n=1
04331   0                -629   633   -26    18  -586   569 u=037 imp:n=1
04332   0                -625    94   -26    18  -571   569 u=037 imp:n=1
04333   0                -621   626   -26    18  -586   569 u=037 imp:n=1
04334   0                -618   622   -26    18  -586   569 u=037 imp:n=1
04335   0                -614   106   -26    18  -571   569 u=037 imp:n=1
04336   0                -611   615   -26    18  -586   569 u=037 imp:n=1
04337   0                 -86    17   -48    18  -577   602 u=037 imp:n=1
04338   0                -604    17   -48    18  -602   605 u=037 imp:n=1
04339   0                 -19    75   -48    18  -605   607 u=037 imp:n=1
04340   0                 -80    78   -48    18  -606   607 u=037 imp:n=1
04341   0                 -19    17   -14    48  -577   607 u=037 imp:n=1
04342   0                 -19    17   -14    18  -607   566 u=037 imp:n=1
04343   0                -611   615   -21    25  -571   569 u=037 imp:n=1
04344   0                -614   118   -21    25  -571   569 u=037 imp:n=1
04345   0                -618   622   -21    25  -571   569 u=037 imp:n=1
04346   0                -621   626   -21    25  -571   569 u=037 imp:n=1
04347   0                -625   114   -21    25  -571   569 u=037 imp:n=1
04348   0                -629   633   -21    25  -571   569 u=037 imp:n=1
04349   0                -632    17   -21    25  -571   576 u=037 imp:n=1
04350   3  0.8540120E-01   -2     1    -4     3  -564     5 u=037  imp:n=1
04351   3  0.8540120E-01   -2     1    -8     7  -564     5 u=037  imp:n=1
04352   3  0.8540120E-01   -9     1    -7     4  -564     5 u=037  imp:n=1
04353   3  0.8540120E-01   -2    10    -7     4  -564     5 u=037  imp:n=1
04354  34  0.1035093E+00  -10   608   -83     4  -609   610 u=037  imp:n=1
04355   0                 -10     9    -7     4  -564   609 u=037 imp:n=1
04356   0                 -10     9    -7     4  -610     5 u=037 imp:n=1
04357   0                 -10     9    -7    83  -609   610 u=037 imp:n=1
04358   0                -608     9   -83     4  -609   610 u=037 imp:n=1
04359   1  0.3030146E-01   -2     1    -4     3   -81   563 u=038  imp:n=1
04360   1  0.3030146E-01   -2     1    -8     7   -81   563 u=038  imp:n=1
04361   2  0.7570860E-01   -9     1    -7     4   -81   563 u=038  imp:n=1
04362   2  0.7570860E-01   -2    10    -7     4   -81   563 u=038  imp:n=1
04363   3  0.8540120E-01   -2     1    -4     3  -563   564 u=038  imp:n=1
04364   3  0.8540120E-01   -2     1    -8     7  -563   564 u=038  imp:n=1
04365   3  0.8540120E-01   -9     1    -7     4  -563   564 u=038  imp:n=1
04366   3  0.8540120E-01   -2    10    -7     4  -563   564 u=038  imp:n=1
04367   4  0.7332760E-01  -13    12   -14     4   -81   565 u=038  imp:n=1
04368   5  0.3966184E-01  -13    12   -14     4  -566   564 u=038  imp:n=1
04369   6  0.3747366E-01  -13    19   -14    18  -565   566 u=038  imp:n=1
04370   6  0.3747366E-01  -17    12   -14    18  -565   566 u=038  imp:n=1
04371   6  0.3747366E-01  -13    12   -18     4  -565   566 u=038  imp:n=1
04372   7  0.8235419E-01  -19    63   -21    18  -565   567 u=038  imp:n=1
04373   7  0.8235419E-01  -19    63   -21    18  -568   569 u=038  imp:n=1
04374   8  0.7986135E-01  -19    63   -21    25  -567   568 u=038  imp:n=1
04375   8  0.7986135E-01  -19    63   -26    18  -567   568 u=038  imp:n=1
04376   9  0.6943934E-01  -19    65   -25    26  -567   568 u=038  imp:n=1
04377   9  0.6943934E-01  -64    63   -25    26  -567   568 u=038  imp:n=1
04378  10  0.4603587E-01  -65    64   -25    26  -567   568 u=038  imp:n=1
04379  11  0.7961518E-01  -73   570   -21    18  -565   567 u=038  imp:n=1
04380  11  0.7961518E-01  -73   570   -21    18  -571   572 u=038  imp:n=1
04381  12  0.7714468E-01  -73   570   -21    25  -567   571 u=038  imp:n=1
04382  12  0.7714468E-01  -73   570   -26    18  -567   571 u=038  imp:n=1
04383  13  0.6712964E-01  -73   573   -25    26  -567   571 u=038  imp:n=1
04384  13  0.6712964E-01 -574   570   -25    26  -567   571 u=038  imp:n=1
04385  14  0.4579853E-01 -573   574   -25    26  -567   571 u=038  imp:n=1
04386  11  0.7961518E-01  -73   570   -21    18  -572   575 u=038  imp:n=1
04387  11  0.7961518E-01  -73   570   -21    18  -576   577 u=038  imp:n=1
04388  12  0.7714468E-01  -73   570   -21    25  -575   576 u=038  imp:n=1
04389  12  0.7714468E-01  -73   570   -26    18  -575   576 u=038  imp:n=1
04390  13  0.6712964E-01  -73   573   -25    26  -575   576 u=038  imp:n=1
```

```
04391  13  0.6712964E-01  -574   570   -25    26  -575   576 u=038  imp:n=1
04392  14  0.4579853E-01  -573   574   -25    26  -575   576 u=038  imp:n=1
04393  15  0.8003452E-01  -579   578   -21    18  -565   567 u=038  imp:n=1
04394  15  0.8003452E-01  -579   578   -21    18  -568   569 u=038  imp:n=1
04395  16  0.7744373E-01  -579   578   -21    25  -567   568 u=038  imp:n=1
04396  16  0.7744373E-01  -579   578   -26    18  -567   568 u=038  imp:n=1
04397  17  0.6733980E-01  -579   580   -25    26  -567   568 u=038  imp:n=1
04398  17  0.6733980E-01  -581   578   -25    26  -567   568 u=038  imp:n=1
04399  18  0.4487970E-01  -580   581   -25    26  -567   568 u=038  imp:n=1
04400  35  0.8186756E-01  -578   636   -48    18  -565   586 u=038  imp:n=1
04401   7  0.8235419E-01  -636   637   -21    18  -565   567 u=038  imp:n=1
04402   7  0.8235419E-01  -636   637   -21    18  -568   569 u=038  imp:n=1
04403   8  0.7986135E-01  -636   637   -21    25  -567   568 u=038  imp:n=1
04404   8  0.7986135E-01  -636   637   -26    18  -567   568 u=038  imp:n=1
04405   9  0.6943934E-01  -636   638   -25    26  -567   568 u=038  imp:n=1
04406   9  0.6943934E-01  -584   637   -25    26  -567   568 u=038  imp:n=1
04407  10  0.4603587E-01  -638   584   -25    26  -567   568 u=038  imp:n=1
04408  19  0.7776510E-01  -637   639   -21    18  -565   567 u=038  imp:n=1
04409  19  0.7776510E-01  -637   639   -21    18  -571   572 u=038  imp:n=1
04410  20  0.7523151E-01  -637   639   -21    25  -567   571 u=038  imp:n=1
04411  20  0.7523151E-01  -637   639   -26    18  -567   571 u=038  imp:n=1
04412  21  0.6542969E-01  -637   640   -25    26  -567   571 u=038  imp:n=1
04413  21  0.6542969E-01  -641   639   -25    26  -567   571 u=038  imp:n=1
04414  22  0.4487471E-01  -640   641   -25    26  -567   571 u=038  imp:n=1
04415  19  0.7776510E-01  -637   639   -21    18  -572   575 u=038  imp:n=1
04416  19  0.7776510E-01  -637   639   -21    18  -576   577 u=038  imp:n=1
04417  20  0.7523151E-01  -637   639   -21    25  -575   576 u=038  imp:n=1
04418  20  0.7523151E-01  -637   639   -26    18  -575   576 u=038  imp:n=1
04419  21  0.6542969E-01  -637   640   -25    26  -575   576 u=038  imp:n=1
04420  21  0.6542969E-01  -641   639   -25    26  -575   576 u=038  imp:n=1
04421  22  0.4487471E-01  -640   641   -25    26  -575   576 u=038  imp:n=1
04422  23  0.1232400E+00   -47    46   -48    18  -565   586 u=038  imp:n=1
04423  24  0.1232187E+00   -47    46   -48    18  -586   587 u=038  imp:n=1
04424  19  0.7776510E-01   -71   588   -21    18  -565   567 u=038  imp:n=1
04425  19  0.7776510E-01   -71   588   -21    18  -571   572 u=038  imp:n=1
04426  20  0.7523151E-01   -71   588   -21    25  -567   571 u=038  imp:n=1
04427  20  0.7523151E-01   -71   588   -26    18  -567   571 u=038  imp:n=1
04428  21  0.6542969E-01   -71   589   -25    26  -567   571 u=038  imp:n=1
04429  21  0.6542969E-01  -590   588   -25    26  -567   571 u=038  imp:n=1
04430  22  0.4487471E-01  -589   590   -25    26  -567   571 u=038  imp:n=1
04431  19  0.7776510E-01   -71   588   -21    18  -572   575 u=038  imp:n=1
04432  19  0.7776510E-01   -71   588   -21    18  -576   577 u=038  imp:n=1
04433  20  0.7523151E-01   -71   588   -21    25  -575   576 u=038  imp:n=1
04434  20  0.7523151E-01   -71   588   -26    18  -575   576 u=038  imp:n=1
04435  21  0.6542969E-01   -71   589   -25    26  -575   576 u=038  imp:n=1
04436  21  0.6542969E-01  -590   588   -25    26  -575   576 u=038  imp:n=1
04437  22  0.4487471E-01  -589   590   -25    26  -575   576 u=038  imp:n=1
04438  15  0.8003452E-01  -588   642   -21    18  -565   567 u=038  imp:n=1
04439  15  0.8003452E-01  -588   642   -21    18  -568   569 u=038  imp:n=1
04440  16  0.7744373E-01  -588   642   -21    25  -567   568 u=038  imp:n=1
04441  16  0.7744373E-01  -588   642   -26    18  -567   568 u=038  imp:n=1
04442  17  0.6733980E-01  -588   643   -25    26  -567   568 u=038  imp:n=1
04443  17  0.6733980E-01  -593   642   -25    26  -567   568 u=038  imp:n=1
04444  18  0.4487970E-01  -643   593   -25    26  -567   568 u=038  imp:n=1
04445  15  0.8003452E-01  -642   644   -21    18  -565   567 u=038  imp:n=1
04446  15  0.8003452E-01  -642   644   -21    18  -568   569 u=038  imp:n=1
04447  16  0.7744373E-01  -642   644   -21    25  -567   568 u=038  imp:n=1
04448  16  0.7744373E-01  -642   644   -26    18  -567   568 u=038  imp:n=1
04449  17  0.6733980E-01  -642   645   -25    26  -567   568 u=038  imp:n=1
04450  17  0.6733980E-01  -646   644   -25    26  -567   568 u=038  imp:n=1
04451  18  0.4487970E-01  -645   646   -25    26  -567   568 u=038  imp:n=1
04452  11  0.7961518E-01  -648   647   -21    18  -565   567 u=038  imp:n=1
04453  11  0.7961518E-01  -648   647   -21    18  -571   572 u=038  imp:n=1
04454  12  0.7714468E-01  -648   647   -21    25  -567   571 u=038  imp:n=1
04455  12  0.7714468E-01  -648   647   -26    18  -567   571 u=038  imp:n=1
04456  13  0.6712964E-01  -648   649   -25    26  -567   571 u=038  imp:n=1
04457  13  0.6712964E-01  -650   647   -25    26  -567   571 u=038  imp:n=1
04458  14  0.4579853E-01  -649   650   -25    26  -567   571 u=038  imp:n=1
04459  11  0.7961518E-01  -648   647   -21    18  -572   575 u=038  imp:n=1
04460  11  0.7961518E-01  -648   647   -21    18  -576   577 u=038  imp:n=1
04461  12  0.7714468E-01  -648   647   -21    25  -575   576 u=038  imp:n=1
04462  12  0.7714468E-01  -648   647   -26    18  -575   576 u=038  imp:n=1
04463  13  0.6712964E-01  -648   649   -25    26  -575   576 u=038  imp:n=1
04464  13  0.6712964E-01  -650   647   -25    26  -575   576 u=038  imp:n=1
04465  14  0.4579853E-01  -649   650   -25    26  -575   576 u=038  imp:n=1
04466   7  0.8235419E-01   -20    17   -21    18  -565   567 u=038  imp:n=1
```

```
04467   7  0.8235419E-01   -20    17   -21    18  -568   569 u=038  imp:n=1
04468   8  0.7986135E-01   -20    17   -21    25  -567   568 u=038  imp:n=1
04469   8  0.7986135E-01   -20    17   -26    18  -567   568 u=038  imp:n=1
04470   9  0.6943934E-01   -20    28   -25    26  -567   568 u=038  imp:n=1
04471   9  0.6943934E-01   -27    17   -25    26  -567   568 u=038  imp:n=1
04472  10  0.4603587E-01   -28    27   -25    26  -567   568 u=038  imp:n=1
04473  25  0.1201037E+00   -19   599   -48    18  -569   600 u=038  imp:n=1
04474  26  0.7164290E-01   -63    73   -48    18  -565   601 u=038  imp:n=1
04475  27  0.1212447E+00   -73    72   -48    18  -577   602 u=038  imp:n=1
04476  28  0.1187656E+00  -570   579   -48    18  -565   586 u=038  imp:n=1
04477  29  0.1183522E+00   -72    51   -48    18  -577   602 u=038  imp:n=1
04478  26  0.7164290E-01   -51    47   -48    18  -565   601 u=038  imp:n=1
04479  26  0.7164290E-01   -46    71   -48    18  -565   601 u=038  imp:n=1
04480  29  0.1183522E+00   -71    69   -48    18  -577   602 u=038  imp:n=1
04481  27  0.1212447E+00   -69    29   -48    18  -577   602 u=038  imp:n=1
04482  28  0.1187656E+00  -644   648   -48    18  -565   586 u=038  imp:n=1
04483  26  0.7164290E-01   -29    20   -48    18  -565   601 u=038  imp:n=1
04484  25  0.1201037E+00   -20   603   -48    18  -569   600 u=038  imp:n=1
04485  31  0.2714513E-01   -19   604   -48    18  -602   605 u=038  imp:n=1
04486  32  0.8823003E-01   -75    17   -48    18  -605   606 u=038  imp:n=1
04487  33  0.8829426E-01   -78    17   -48    18  -606   607 u=038  imp:n=1
04488  33  0.8829426E-01   -75    80   -48    18  -606   607 u=038  imp:n=1
04489   0                  -12     9   -14     4  -563   564 u=038 imp:n=1
04490   0                  -10    13   -14     4  -563   564 u=038 imp:n=1
04491   0                  -10     9    -7    14   -81   564 u=038 imp:n=1
04492   0                 -647    20   -25    48  -567   569 u=038 imp:n=1
04493   0                 -644   648   -25    48  -567   569 u=038 imp:n=1
04494   0                 -639    71   -25    48  -567   576 u=038 imp:n=1
04495   0                 -578   636   -25    48  -567   586 u=038 imp:n=1
04496   0                 -647    29   -48    26  -567   576 u=038 imp:n=1
04497   0                 -639    51   -48    26  -567   576 u=038 imp:n=1
04498   0                 -570   579   -25    48  -567   586 u=038 imp:n=1
04499   0                  -63    73   -25    48  -567   569 u=038 imp:n=1
04500   0                  -63    73   -21    48  -565   567 u=038 imp:n=1
04501   0                 -570   579   -21    48  -565   567 u=038 imp:n=1
04502   0                 -639    51   -48    18  -565   567 u=038 imp:n=1
04503   0                 -647    29   -48    18  -565   567 u=038 imp:n=1
04504   0                 -644   648   -48    18  -586   568 u=038 imp:n=1
04505   0                 -578   636   -21    48  -565   567 u=038 imp:n=1
04506   0                 -578   636   -25    18  -586   568 u=038 imp:n=1
04507   0                 -639    71   -21    48  -565   567 u=038 imp:n=1
04508   0                 -644   648   -21    48  -565   567 u=038 imp:n=1
04509   0                 -647    20   -21    48  -565   567 u=038 imp:n=1
04510   0                  -10    13   -14     4   -81   563 u=038 imp:n=1
04511   0                  -12     9   -14     4   -81   563 u=038 imp:n=1
04512   0                 -570   579   -25    18  -586   568 u=038 imp:n=1
04513   0                 -570   579   -25    18  -568   569 u=038 imp:n=1
04514   0                 -578   636   -25    18  -568   569 u=038 imp:n=1
04515   0                 -644   648   -48    18  -568   569 u=038 imp:n=1
04516   0                 -639    51   -48    18  -576   577 u=038 imp:n=1
04517   0                 -647    29   -48    18  -576   577 u=038 imp:n=1
04518   0                 -639    71   -21    48  -576   577 u=038 imp:n=1
04519   0                 -588   648   -21    18  -576   577 u=038 imp:n=1
04520   0                  -51    47   -48    18  -601   587 u=038 imp:n=1
04521   0                  -46    71   -48    18  -601   587 u=038 imp:n=1
04522   0                 -599    73   -48    18  -601   600 u=038 imp:n=1
04523   0                  -29    20   -48    18  -601   600 u=038 imp:n=1
04524   0                  -19    73   -48    18  -600   602 u=038 imp:n=1
04525   0                  -51    71   -48    18  -587   602 u=038 imp:n=1
04526   0                  -29    17   -48    18  -600   602 u=038 imp:n=1
04527   0                 -604    17   -48    18  -602   605 u=038 imp:n=1
04528   0                  -19    75   -48    18  -605   607 u=038 imp:n=1
04529   0                  -80    78   -48    18  -606   607 u=038 imp:n=1
04530   0                  -19    17   -14    48  -577   607 u=038 imp:n=1
04531   0                 -647    29   -26    18  -567   576 u=038 imp:n=1
04532   0                 -639    51   -26    18  -567   576 u=038 imp:n=1
04533   0                  -19    17   -14    18  -607   566 u=038 imp:n=1
04534   0                 -599    63   -48    18  -569   601 u=038 imp:n=1
04535   0                  -19    73   -21    48  -569   577 u=038 imp:n=1
04536   0                 -570   637   -21    18  -569   577 u=038 imp:n=1
04537   0                 -603    17   -48    18  -569   600 u=038 imp:n=1
04538   0                 -588   648   -21    18  -569   576 u=038 imp:n=1
04539   0                 -647    17   -21    48  -569   577 u=038 imp:n=1
04540   0                  -63    73   -21    25  -567   569 u=038 imp:n=1
04541   0                 -570   579   -21    25  -567   569 u=038 imp:n=1
04542   0                 -578   636   -21    25  -567   569 u=038 imp:n=1
```

```
04543   0                  -639    71   -21    25  -567   576 u=038 imp:n=1
04544   0                   -19    17   -14    21  -565   577 u=038 imp:n=1
04545   0                  -647    20   -21    25  -567   569 u=038 imp:n=1
04546   0                  -644   648   -21    25  -567   569 u=038 imp:n=1
04547   3  0.8540120E-01     -2     1    -4     3  -564     5 u=038  imp:n=1
04548   3  0.8540120E-01     -2     1    -8     7  -564     5 u=038  imp:n=1
04549   3  0.8540120E-01     -9     1    -7     4  -564     5 u=038  imp:n=1
04550   3  0.8540120E-01     -2    10    -7     4  -564     5 u=038  imp:n=1
04551  34  0.1035093E+00    -10   608   -83     4  -609   610 u=038  imp:n=1
04552   0                   -10     9    -7     4  -564   609 u=038 imp:n=1
04553   0                   -10     9    -7     4  -610     5 u=038 imp:n=1
04554   0                   -10     9    -7    83  -609   610 u=038 imp:n=1
04555   0                  -608     9   -83     4  -609   610 u=038 imp:n=1
04556   1  0.3030146E-01     -2     1    -4     3   -81   563 u=039  imp:n=1
04557   1  0.3030146E-01     -2     1    -8     7   -81   563 u=039  imp:n=1
04558   2  0.7570860E-01     -9     1    -7     4   -81   563 u=039  imp:n=1
04559   2  0.7570860E-01     -2    10    -7     4   -81   563 u=039  imp:n=1
04560   3  0.8540120E-01     -2     1    -4     3  -563   564 u=039  imp:n=1
04561   3  0.8540120E-01     -2     1    -8     7  -563   564 u=039  imp:n=1
04562   3  0.8540120E-01     -9     1    -7     4  -563   564 u=039  imp:n=1
04563   3  0.8540120E-01     -2    10    -7     4  -563   564 u=039  imp:n=1
04564   4  0.7332760E-01    -13    12   -14     4   -81   565 u=039  imp:n=1
04565   5  0.3966184E-01    -13    12   -14     4  -566   564 u=039  imp:n=1
04566   6  0.3747366E-01    -13    19   -14    18  -565   566 u=039  imp:n=1
04567   6  0.3747366E-01    -17    12   -14    18  -565   566 u=039  imp:n=1
04568   6  0.3747366E-01    -13    12   -18     4  -565   566 u=039  imp:n=1
04569   7  0.8235419E-01   -165   651   -21    18  -565   567 u=039  imp:n=1
04570   7  0.8235419E-01   -165   651   -21    18  -568   569 u=039  imp:n=1
04571   8  0.7986135E-01   -165   651   -21    25  -567   568 u=039  imp:n=1
04572   8  0.7986135E-01   -165   651   -26    18  -567   568 u=039  imp:n=1
04573   9  0.6943934E-01   -165   652   -25    26  -567   568 u=039  imp:n=1
04574   9  0.6943934E-01   -653   651   -25    26  -567   568 u=039  imp:n=1
04575  10  0.4603587E-01   -652   653   -25    26  -567   568 u=039  imp:n=1
04576  15  0.8003452E-01   -655   654   -21    18  -565   567 u=039  imp:n=1
04577  15  0.8003452E-01   -655   654   -21    18  -568   569 u=039  imp:n=1
04578  16  0.7744373E-01   -655   654   -21    25  -567   568 u=039  imp:n=1
04579  16  0.7744373E-01   -655   654   -26    18  -567   568 u=039  imp:n=1
04580  17  0.6733980E-01   -655   656   -25    26  -567   568 u=039  imp:n=1
04581  17  0.6733980E-01   -657   654   -25    26  -567   568 u=039  imp:n=1
04582  18  0.4487970E-01   -656   657   -25    26  -567   568 u=039  imp:n=1
04583  23  0.1232400E+00   -184   183   -48    18  -565   586 u=039  imp:n=1
04584  24  0.1232187E+00   -184   183   -48    18  -586   587 u=039  imp:n=1
04585  15  0.8003452E-01   -196   658   -21    18  -565   567 u=039  imp:n=1
04586  15  0.8003452E-01   -196   658   -21    18  -568   569 u=039  imp:n=1
04587  16  0.7744373E-01   -196   658   -21    25  -567   568 u=039  imp:n=1
04588  16  0.7744373E-01   -196   658   -26    18  -567   568 u=039  imp:n=1
04589  17  0.6733980E-01   -196   659   -25    26  -567   568 u=039  imp:n=1
04590  17  0.6733980E-01   -660   658   -25    26  -567   568 u=039  imp:n=1
04591  18  0.4487970E-01   -659   660   -25    26  -567   568 u=039  imp:n=1
04592   7  0.8235419E-01   -662   661   -21    18  -565   567 u=039  imp:n=1
04593   7  0.8235419E-01   -662   661   -21    18  -568   569 u=039  imp:n=1
04594   8  0.7986135E-01   -662   661   -21    25  -567   568 u=039  imp:n=1
04595   8  0.7986135E-01   -662   661   -26    18  -567   568 u=039  imp:n=1
04596   9  0.6943934E-01   -662   663   -25    26  -567   568 u=039  imp:n=1
04597   9  0.6943934E-01   -664   661   -25    26  -567   568 u=039  imp:n=1
04598  10  0.4603587E-01   -663   664   -25    26  -567   568 u=039  imp:n=1
04599  36  0.6435380E-01   -666   665   -48    18  -565   667 u=039  imp:n=1
04600  37  0.6435380E-01   -666   665   -48    18  -667   586 u=039  imp:n=1
04601  38  0.8323048E-01   -175   174   -48    18  -668   669 u=039  imp:n=1
04602  39  0.1185481E+00   -173   172   -48    18  -565   587 u=039  imp:n=1
04603  40  0.5178530E-01   -172   138   -48    18  -670   669 u=039  imp:n=1
04604  29  0.1183522E+00   -165   185   -48    18  -577   602 u=039  imp:n=1
04605  30  0.5464445E-01   -651   655   -48    18  -565   586 u=039  imp:n=1
04606  26  0.7164290E-01   -185   184   -48    18  -565   601 u=039  imp:n=1
04607  26  0.7164290E-01   -183   196   -48    18  -565   601 u=039  imp:n=1
04608  29  0.1183522E+00   -196   175   -48    18  -569   600 u=039  imp:n=1
04609  30  0.5464445E-01   -658   662   -48    18  -565   586 u=039  imp:n=1
04610  41  0.5279270E-01   -665   671   -48    18  -565   668 u=039  imp:n=1
04611  42  0.5392130E-01   -174   173   -48    18  -668   669 u=039  imp:n=1
04612  41  0.5279270E-01   -172   138   -48    18  -565   668 u=039  imp:n=1
04613  42  0.5392130E-01   -172   138   -48    18  -668   670 u=039  imp:n=1
04614  31  0.2714513E-01    -19   604   -48    18  -669   672 u=039  imp:n=1
04615  32  0.8823003E-01    -75    17   -48    18  -672   673 u=039  imp:n=1
04616  33  0.8829426E-01    -78    17   -48    18  -673   674 u=039  imp:n=1
04617  33  0.8829426E-01    -75    80   -48    18  -673   674 u=039  imp:n=1
04618   0                   -12     9   -14     4  -563   564 u=039 imp:n=1
```

```
04619   0                  -10    13   -14     4  -563   564 u=039 imp:n=1
04620   0                  -10     9    -7    14   -81   564 u=039 imp:n=1
04621   0                 -661    17   -21    48  -563   569 u=039 imp:n=1
04622   0                 -658   662   -25    18  -586   568 u=039 imp:n=1
04623   0                 -654   196   -21    48  -563   569 u=039 imp:n=1
04624   0                 -138    17   -48    26  -567   568 u=039 imp:n=1
04625   0                 -671   173   -48    26  -567   568 u=039 imp:n=1
04626   0                 -661   665   -48    18  -586   569 u=039 imp:n=1
04627   0                 -651   655   -21    48  -565   567 u=039 imp:n=1
04628   0                 -654   185   -48    26  -567   568 u=039 imp:n=1
04629   0                 -654   185   -48    18  -565   567 u=039 imp:n=1
04630   0                 -658   662   -25    48  -567   586 u=039 imp:n=1
04631   0                 -661   666   -48    18  -565   567 u=039 imp:n=1
04632   0                 -671   173   -48    18  -565   567 u=039 imp:n=1
04633   0                 -138    17   -48    18  -565   567 u=039 imp:n=1
04634   0                 -661   666   -48    26  -567   586 u=039 imp:n=1
04635   0                 -658   662   -21    48  -565   567 u=039 imp:n=1
04636   0                  -19   165   -21    18  -565   563 u=039 imp:n=1
04637   0                 -654   196   -21    48  -565   563 u=039 imp:n=1
04638   0                 -661    17   -21    48  -565   563 u=039 imp:n=1
04639   0                 -651   655   -25    18  -586   568 u=039 imp:n=1
04640   0                 -651   655   -25    48  -567   586 u=039 imp:n=1
04641   0                  -19   165   -21    18  -563   569 u=039 imp:n=1
04642   0                 -138    17   -26    18  -567   568 u=039 imp:n=1
04643   0                 -671   173   -26    18  -567   568 u=039 imp:n=1
04644   0                  -10    13   -14     4   -81   563 u=039 imp:n=1
04645   0                  -12     9   -14     4   -81   563 u=039 imp:n=1
04646   0                 -654   185   -26    18  -567   568 u=039 imp:n=1
04647   0                 -651   655   -21    18  -568   569 u=039 imp:n=1
04648   0                 -661   666   -26    18  -567   586 u=039 imp:n=1
04649   0                 -654   185   -48    18  -568   569 u=039 imp:n=1
04650   0                 -658   662   -21    18  -568   569 u=039 imp:n=1
04651   0                 -185   184   -48    18  -601   587 u=039 imp:n=1
04652   0                  -19   185   -48    18  -569   577 u=039 imp:n=1
04653   0                 -183   196   -48    18  -601   587 u=039 imp:n=1
04654   0                 -175   665   -48    18  -569   668 u=039 imp:n=1
04655   0                  -19    17   -14    21  -565   569 u=039 imp:n=1
04656   0                 -671   173   -48    18  -568   668 u=039 imp:n=1
04657   0                 -658   662   -21    25  -567   568 u=039 imp:n=1
04658   0                  -19   165   -48    18  -577   602 u=039 imp:n=1
04659   0                 -651   655   -21    25  -567   568 u=039 imp:n=1
04660   0                 -185   196   -48    18  -587   600 u=039 imp:n=1
04661   0                  -19    17   -14    18  -674   566 u=039 imp:n=1
04662   0                  -19    17   -14    48  -569   674 u=039 imp:n=1
04663   0                  -80    78   -48    18  -673   674 u=039 imp:n=1
04664   0                  -19    75   -48    18  -672   674 u=039 imp:n=1
04665   0                 -185   175   -48    18  -600   602 u=039 imp:n=1
04666   0                  -19   175   -48    18  -602   669 u=039 imp:n=1
04667   0                 -173   172   -48    18  -587   669 u=039 imp:n=1
04668   0                 -604    17   -48    18  -669   672 u=039 imp:n=1
04669   0                 -138    17   -48    18  -568   669 u=039 imp:n=1
04670   3  0.8540120E-01    -2     1    -4     3  -564     5 u=039  imp:n=1
04671   3  0.8540120E-01    -2     1    -8     7  -564     5 u=039  imp:n=1
04672   3  0.8540120E-01    -9     1    -7     4  -564     5 u=039  imp:n=1
04673   3  0.8540120E-01    -2    10    -7     4  -564     5 u=039  imp:n=1
04674  34  0.1035093E+00   -10   608   -83     4  -609   610 u=039  imp:n=1
04675   0                  -10     9    -7     4  -564   609 u=039 imp:n=1
04676   0                  -10     9    -7     4  -610     5 u=039 imp:n=1
04677   0                  -10     9    -7    83  -609   610 u=039 imp:n=1
04678   0                 -608     9   -83     4  -609   610 u=039 imp:n=1
04679   1  0.3030146E-01    -2     1    -4     3   -81   563 u=040  imp:n=1
04680   1  0.3030146E-01    -2     1    -8     7   -81   563 u=040  imp:n=1
04681   2  0.7570860E-01    -9     1    -7     4   -81   563 u=040  imp:n=1
04682   2  0.7570860E-01    -2    10    -7     4   -81   563 u=040  imp:n=1
04683   3  0.8540120E-01    -2     1    -4     3  -563   564 u=040  imp:n=1
04684   3  0.8540120E-01    -2     1    -8     7  -563   564 u=040  imp:n=1
04685   3  0.8540120E-01    -9     1    -7     4  -563   564 u=040  imp:n=1
04686   3  0.8540120E-01    -2    10    -7     4  -563   564 u=040  imp:n=1
04687   4  0.7332760E-01   -13    12   -14     4   -81   565 u=040  imp:n=1
04688   5  0.3966184E-01   -13    12   -14     4  -566   564 u=040  imp:n=1
04689   6  0.3747366E-01   -13    19   -14    18  -565   566 u=040  imp:n=1
04690   6  0.3747366E-01   -17    12   -14    18  -565   566 u=040  imp:n=1
04691   6  0.3747366E-01   -13    12   -18     4  -565   566 u=040  imp:n=1
04692  40  0.5178530E-01  -165   164   -48    18  -670   669 u=040  imp:n=1
04693  39  0.1185481E+00  -164   163   -48    18  -565   587 u=040  imp:n=1
04694  36  0.6435380E-01  -160   159   -48    18  -565   667 u=040  imp:n=1
```

```
04695  37  0.6435380E-01  -160   159   -48    18  -667   586 u=040  imp:n=1
04696  38  0.8323048E-01  -160   159   -48    18  -668   669 u=040  imp:n=1
04697   7  0.8235419E-01  -159   675   -21    18  -565   567 u=040  imp:n=1
04698   7  0.8235419E-01  -159   675   -21    18  -568   569 u=040  imp:n=1
04699   8  0.7986135E-01  -159   675   -21    25  -567   568 u=040  imp:n=1
04700   8  0.7986135E-01  -159   675   -26    18  -567   568 u=040  imp:n=1
04701   9  0.6943934E-01  -159   676   -25    26  -567   568 u=040  imp:n=1
04702   9  0.6943934E-01  -677   675   -25    26  -567   568 u=040  imp:n=1
04703  10  0.4603587E-01  -676   677   -25    26  -567   568 u=040  imp:n=1
04704  15  0.8003452E-01  -679   678   -21    18  -565   567 u=040  imp:n=1
04705  15  0.8003452E-01  -679   678   -21    18  -568   569 u=040  imp:n=1
04706  16  0.7744373E-01  -679   678   -21    25  -567   568 u=040  imp:n=1
04707  16  0.7744373E-01  -679   678   -26    18  -567   568 u=040  imp:n=1
04708  17  0.6733980E-01  -679   680   -25    26  -567   568 u=040  imp:n=1
04709  17  0.6733980E-01  -681   678   -25    26  -567   568 u=040  imp:n=1
04710  18  0.4487970E-01  -680   681   -25    26  -567   568 u=040  imp:n=1
04711  23  0.1232400E+00  -147   146   -48    18  -565   586 u=040  imp:n=1
04712  24  0.1232187E+00  -147   146   -48    18  -586   587 u=040  imp:n=1
04713  43  0.4548021E-01  -167   682   -48    18  -565   683 u=040  imp:n=1
04714  44  0.8022954E-01  -167   684   -21    18  -683   685 u=040  imp:n=1
04715  44  0.8022954E-01  -167   684   -21    18  -568   569 u=040  imp:n=1
04716  45  0.7761880E-01  -167   684   -21    25  -685   568 u=040  imp:n=1
04717  45  0.7761880E-01  -167   684   -26    18  -685   568 u=040  imp:n=1
04718  46  0.6750312E-01  -167   686   -25    26  -685   568 u=040  imp:n=1
04719  46  0.6750312E-01  -687   684   -25    26  -685   568 u=040  imp:n=1
04720  47  0.4595639E-01  -686   687   -25    26  -685   568 u=040  imp:n=1
04721   7  0.8235419E-01  -689   688   -21    18  -565   567 u=040  imp:n=1
04722   7  0.8235419E-01  -689   688   -21    18  -568   569 u=040  imp:n=1
04723   8  0.7986135E-01  -689   688   -21    25  -567   568 u=040  imp:n=1
04724   8  0.7986135E-01  -689   688   -26    18  -567   568 u=040  imp:n=1
04725   9  0.6943934E-01  -689   690   -25    26  -567   568 u=040  imp:n=1
04726   9  0.6943934E-01  -691   688   -25    26  -567   568 u=040  imp:n=1
04727  10  0.4603587E-01  -690   691   -25    26  -567   568 u=040  imp:n=1
04728  41  0.5279270E-01  -165   164   -48    18  -565   668 u=040  imp:n=1
04729  42  0.5392130E-01  -165   164   -48    18  -668   670 u=040  imp:n=1
04730  41  0.5279270E-01  -163   160   -48    18  -565   668 u=040  imp:n=1
04731  42  0.5392130E-01  -163   160   -48    18  -668   669 u=040  imp:n=1
04732  29  0.1183522E+00  -159   148   -48    18  -569   600 u=040  imp:n=1
04733  30  0.5464445E-01  -675   679   -48    18  -565   586 u=040  imp:n=1
04734  26  0.7164290E-01  -148   147   -48    18  -565   601 u=040  imp:n=1
04735  26  0.7164290E-01  -146   167   -48    18  -565   601 u=040  imp:n=1
04736  29  0.1183522E+00  -167   138   -48    18  -577   602 u=040  imp:n=1
04737  30  0.5464445E-01  -684   689   -48    18  -565   586 u=040  imp:n=1
04738  31  0.2714513E-01   -19   604   -48    18  -669   672 u=040  imp:n=1
04739  32  0.8823003E-01   -75    17   -48    18  -672   673 u=040  imp:n=1
04740  33  0.8829426E-01   -78    17   -48    18  -673   674 u=040  imp:n=1
04741  33  0.8829426E-01   -75    80   -48    18  -673   674 u=040  imp:n=1
04742   0                  -12     9   -14     4  -563   564 u=040 imp:n=1
04743   0                  -10    13   -14     4  -563   564 u=040 imp:n=1
04744   0                  -10     9    -7    14   -81   564 u=040 imp:n=1
04745   0                 -688    17   -25    48  -567   568 u=040 imp:n=1
04746   0                 -678   689   -21    48  -563   683 u=040 imp:n=1
04747   0                 -678   148   -48    18  -565   563 u=040 imp:n=1
04748   0                 -684   689   -25    48  -683   568 u=040 imp:n=1
04749   0                 -678   167   -25    48  -683   568 u=040 imp:n=1
04750   0                 -682   684   -48    18  -565   563 u=040 imp:n=1
04751   0                 -688    17   -21    18  -565   567 u=040 imp:n=1
04752   0                  -19   159   -21    48  -565   563 u=040 imp:n=1
04753   0                 -675   679   -21    48  -563   569 u=040 imp:n=1
04754   0                  -19   159   -21    48  -563   569 u=040 imp:n=1
04755   0                  -19    17   -14    21  -565   569 u=040 imp:n=1
04756   0                 -688    17   -21    25  -567   568 u=040 imp:n=1
04757   0                 -675   679   -21    48  -565   563 u=040 imp:n=1
04758   0                 -678   689   -21    48  -565   563 u=040 imp:n=1
04759   0                 -684   689   -21    25  -683   568 u=040 imp:n=1
04760   0                 -678   167   -21    25  -683   568 u=040 imp:n=1
04761   0                  -10    13   -14     4   -81   563 u=040 imp:n=1
04762   0                  -12     9   -14     4   -81   563 u=040 imp:n=1
04763   0                 -164   163   -48    18  -587   669 u=040 imp:n=1
04764   0                 -148   167   -48    18  -587   600 u=040 imp:n=1
04765   0                  -19    17   -14    48  -569   674 u=040 imp:n=1
04766   0                 -159   167   -48    18  -600   602 u=040 imp:n=1
04767   0                 -688    17   -21    18  -568   569 u=040 imp:n=1
04768   0                 -684   689   -21    18  -568   569 u=040 imp:n=1
04769   0                 -678   167   -21    48  -568   569 u=040 imp:n=1
04770   0                 -159    17   -48    18  -602   669 u=040 imp:n=1
```

```
04771   0                -604    17   -48    18  -669   672 u=040 imp:n=1
04772   0                -688    17   -48    18  -586   568 u=040 imp:n=1
04773   0                -684   689   -48    18  -586   568 u=040 imp:n=1
04774   0                -678   148   -48    18  -586   569 u=040 imp:n=1
04775   0                -675   679   -48    18  -586   569 u=040 imp:n=1
04776   0                -160   159   -48    18  -586   668 u=040 imp:n=1
04777   0                 -19    75   -48    18  -672   674 u=040 imp:n=1
04778   0                 -80    78   -48    18  -673   674 u=040 imp:n=1
04779   0                 -19    17   -14    18  -674   566 u=040 imp:n=1
04780   0                 -19   165   -48    18  -565   669 u=040 imp:n=1
04781   0                -688    17   -26    18  -567   667 u=040 imp:n=1
04782   0                -167    17   -48    18  -569   577 u=040 imp:n=1
04783   0                -138    17   -48    18  -577   602 u=040 imp:n=1
04784   0                -678   148   -48    18  -563   667 u=040 imp:n=1
04785   0                -682   684   -48    18  -563   683 u=040 imp:n=1
04786   0                -688    17   -48    26  -567   667 u=040 imp:n=1
04787   0                -678   148   -48    18  -667   586 u=040 imp:n=1
04788   0                -688    17   -48    18  -667   586 u=040 imp:n=1
04789   0                -148   147   -48    18  -601   587 u=040 imp:n=1
04790   0                -146   167   -48    18  -601   587 u=040 imp:n=1
04791   3  0.8540120E-01    -2     1    -4     3  -564     5 u=040  imp:n=1
04792   3  0.8540120E-01    -2     1    -8     7  -564     5 u=040  imp:n=1
04793   3  0.8540120E-01    -9     1    -7     4  -564     5 u=040  imp:n=1
04794   3  0.8540120E-01    -2    10    -7     4  -564     5 u=040  imp:n=1
04795  34  0.1035093E+00   -10   608   -83     4  -609   610 u=040  imp:n=1
04796   0                  -10     9    -7     4  -564   609 u=040 imp:n=1
04797   0                  -10     9    -7     4  -610     5 u=040 imp:n=1
04798   0                  -10     9    -7    83  -609   610 u=040 imp:n=1
04799   0                 -608     9   -83     4  -609   610 u=040 imp:n=1
04800   1  0.3030146E-01    -2     1    -4     3   -81   563 u=041  imp:n=1
04801   1  0.3030146E-01    -2     1    -8     7   -81   563 u=041  imp:n=1
04802   2  0.7570860E-01    -9     1    -7     4   -81   563 u=041  imp:n=1
04803   2  0.7570860E-01    -2    10    -7     4   -81   563 u=041  imp:n=1
04804   3  0.8540120E-01    -2     1    -4     3  -563   564 u=041  imp:n=1
04805   3  0.8540120E-01    -2     1    -8     7  -563   564 u=041  imp:n=1
04806   3  0.8540120E-01    -9     1    -7     4  -563   564 u=041  imp:n=1
04807   3  0.8540120E-01    -2    10    -7     4  -563   564 u=041  imp:n=1
04808   4  0.7332760E-01   -13    12   -14     4   -81   565 u=041  imp:n=1
04809   5  0.3966184E-01   -13    12   -14     4  -566   564 u=041  imp:n=1
04810   6  0.3747366E-01   -13    19   -14    18  -565   566 u=041  imp:n=1
04811   6  0.3747366E-01   -17    12   -14    18  -565   566 u=041  imp:n=1
04812   6  0.3747366E-01   -13    12   -18     4  -565   566 u=041  imp:n=1
04813  40  0.5178530E-01   -19   604  -198   197  -670   669 u=041  imp:n=1
04814   7  0.8235419E-01   -19    17  -200   199  -565   567 u=041  imp:n=1
04815   7  0.8235419E-01   -19    17  -200   199  -568   569 u=041  imp:n=1
04816   8  0.7986135E-01  -202    17  -200   199  -567   568 u=041  imp:n=1
04817   8  0.7986135E-01   -19   201  -200   199  -567   568 u=041  imp:n=1
04818   9  0.6943934E-01  -201   202  -203   199  -567   568 u=041  imp:n=1
04819   9  0.6943934E-01  -201   202  -200   204  -567   568 u=041  imp:n=1
04820  10  0.4603587E-01  -201   202  -204   203  -567   568 u=041  imp:n=1
04821  36  0.6435380E-01   -19   604  -205   200  -565   667 u=041  imp:n=1
04822  38  0.8323048E-01   -19   604  -207   206  -668   669 u=041  imp:n=1
04823  37  0.6435380E-01   -19   604  -205   200  -667   586 u=041  imp:n=1
04824  48  0.1333519E+00   -19   604  -208   198  -667   586 u=041  imp:n=1
04825  24  0.1232187E+00   -19   604  -208   198  -586   587 u=041  imp:n=1
04826  39  0.1185481E+00   -19   604  -197   209  -565   587 u=041  imp:n=1
04827  28  0.1187656E+00   -19   604  -199   210  -565   586 u=041  imp:n=1
04828   7  0.8235419E-01   -19    17  -210   211  -565   567 u=041  imp:n=1
04829   7  0.8235419E-01   -19    17  -210   211  -568   569 u=041  imp:n=1
04830   8  0.7986135E-01  -202    17  -210   211  -567   568 u=041  imp:n=1
04831   8  0.7986135E-01   -19   201  -210   211  -567   568 u=041  imp:n=1
04832   9  0.6943934E-01  -201   202  -212   211  -567   568 u=041  imp:n=1
04833   9  0.6943934E-01  -201   202  -210   213  -567   568 u=041  imp:n=1
04834  10  0.4603587E-01  -201   202  -213   212  -567   568 u=041  imp:n=1
04835  26  0.7164290E-01   -19   604  -215   214  -565   601 u=041  imp:n=1
04836   7  0.8235419E-01   -19    17  -214    18  -565   567 u=041  imp:n=1
04837   7  0.8235419E-01   -19    17  -214    18  -568   569 u=041  imp:n=1
04838   8  0.7986135E-01  -202    17  -214    18  -567   568 u=041  imp:n=1
04839   8  0.7986135E-01   -19   201  -214    18  -567   568 u=041  imp:n=1
04840   9  0.6943934E-01  -201   202  -216    18  -567   568 u=041  imp:n=1
04841   9  0.6943934E-01  -201   202  -214   217  -567   568 u=041  imp:n=1
04842  10  0.4603587E-01  -201   202  -217   216  -567   568 u=041  imp:n=1
04843  25  0.1201037E+00   -19   604  -218    18  -569   600 u=041  imp:n=1
04844  29  0.1183522E+00   -19   604  -206   219  -569   600 u=041  imp:n=1
04845  41  0.5279270E-01   -19   604  -198   197  -565   668 u=041  imp:n=1
04846  42  0.5392130E-01   -19   604  -198   197  -668   670 u=041  imp:n=1
```

```
04847  41  0.5279270E-01   -19   604  -209   205  -565   668 u=041  imp:n=1
04848  42  0.5392130E-01   -19   604  -220   207  -668   669 u=041  imp:n=1
04849  49  0.1333121E+00   -19   604  -208   198  -565   692 u=041  imp:n=1
04850  49  0.1333121E+00   -19   604  -208   198  -692   667 u=041  imp:n=1
04851  31  0.2714513E-01   -19   604   -48    18  -669   672 u=041  imp:n=1
04852  32  0.8823003E-01   -75    17   -48    18  -672   673 u=041  imp:n=1
04853  33  0.8829426E-01   -78    17   -48    18  -673   674 u=041  imp:n=1
04854  33  0.8829426E-01   -75    80   -48    18  -673   674 u=041  imp:n=1
04855   0                  -12     9   -14     4  -563   564 u=041 imp:n=1
04856   0                  -10    13   -14     4  -563   564 u=041 imp:n=1
04857   0                  -10     9    -7    14   -81   564 u=041 imp:n=1
04858   0                  -19    17  -211   215  -565   569 u=041 imp:n=1
04859   0                 -604    17  -215   214  -565   601 u=041 imp:n=1
04860   0                  -19    17  -199   210  -586   569 u=041 imp:n=1
04861   0                 -604    17  -198   200  -565   567 u=041 imp:n=1
04862   0                 -604    17  -198   200  -567   563 u=041 imp:n=1
04863   0                 -604    17  -199   210  -565   586 u=041 imp:n=1
04864   0                  -19    17  -205   200  -586   569 u=041 imp:n=1
04865   0                 -604    17  -208   205  -586   568 u=041 imp:n=1
04866   0                  -10    13   -14     4   -81   563 u=041 imp:n=1
04867   0                  -12     9   -14     4   -81   563 u=041 imp:n=1
04868   0                  -19    17   -14   208  -565   587 u=041 imp:n=1
04869   0                 -604    17  -208   200  -667   586 u=041 imp:n=1
04870   0                 -604    17  -198   197  -670   669 u=041 imp:n=1
04871   0                 -604    17  -208   198  -670   587 u=041 imp:n=1
04872   0                  -19    17   -14   198  -587   669 u=041 imp:n=1
04873   0                 -604    17  -197   209  -670   587 u=041 imp:n=1
04874   0                 -604    17  -220   206  -670   669 u=041 imp:n=1
04875   0                 -604    17  -198   200  -563   667 u=041 imp:n=1
04876   0                  -19    17  -197   220  -587   669 u=041 imp:n=1
04877   0                 -604    17  -208   198  -565   667 u=041 imp:n=1
04878   0                  -19    17  -206    18  -600   669 u=041 imp:n=1
04879   0                 -604    17   -48    18  -669   672 u=041 imp:n=1
04880   0                  -19    75   -48    18  -672   674 u=041 imp:n=1
04881   0                  -80    78   -48    18  -673   674 u=041 imp:n=1
04882   0                  -19    17   -14    48  -669   674 u=041 imp:n=1
04883   0                  -19    17  -214   218  -569   601 u=041 imp:n=1
04884   0                 -604    17  -218    18  -569   600 u=041 imp:n=1
04885   0                  -19    17  -219   215  -569   601 u=041 imp:n=1
04886   0                  -19    17  -205   206  -569   668 u=041 imp:n=1
04887   0                 -604    17  -208   205  -569   668 u=041 imp:n=1
04888   0                 -604    17  -206   219  -569   600 u=041 imp:n=1
04889   0                  -19    17   -14    18  -674   566 u=041 imp:n=1
04890   0                 -604    17  -208   205  -568   569 u=041 imp:n=1
04891   0                 -604    17  -208   209  -668   670 u=041 imp:n=1
04892   0                 -604    17  -220   206  -668   670 u=041 imp:n=1
04893   0                  -19    17  -209   220  -668   587 u=041 imp:n=1
04894   0                  -19    17  -219   218  -601   600 u=041 imp:n=1
04895   3  0.8540120E-01    -2     1    -4     3  -564     5 u=041  imp:n=1
04896   3  0.8540120E-01    -2     1    -8     7  -564     5 u=041  imp:n=1
04897   3  0.8540120E-01    -9     1    -7     4  -564     5 u=041  imp:n=1
04898   3  0.8540120E-01    -2    10    -7     4  -564     5 u=041  imp:n=1
04899  34  0.1035093E+00   -10   608   -83     4  -609   610 u=041  imp:n=1
04900   0                  -10     9    -7     4  -564   609 u=041 imp:n=1
04901   0                  -10     9    -7     4  -610     5 u=041 imp:n=1
04902   0                  -10     9    -7    83  -609   610 u=041 imp:n=1
04903   0                 -608     9   -83     4  -609   610 u=041 imp:n=1
04904   1  0.3030146E-01    -2     1    -4     3   -81   563 u=042  imp:n=1
04905   1  0.3030146E-01    -2     1    -8     7   -81   563 u=042  imp:n=1
04906   2  0.7570860E-01    -9     1    -7     4   -81   563 u=042  imp:n=1
04907   2  0.7570860E-01    -2    10    -7     4   -81   563 u=042  imp:n=1
04908   3  0.8540120E-01    -2     1    -4     3  -563   564 u=042  imp:n=1
04909   3  0.8540120E-01    -2     1    -8     7  -563   564 u=042  imp:n=1
04910   3  0.8540120E-01    -9     1    -7     4  -563   564 u=042  imp:n=1
04911   3  0.8540120E-01    -2    10    -7     4  -563   564 u=042  imp:n=1
04912   4  0.7332760E-01   -13    12   -14     4   -81   565 u=042  imp:n=1
04913   5  0.3966184E-01   -13    12   -14     4  -566   564 u=042  imp:n=1
04914   6  0.3747366E-01   -13    19   -14    18  -565   566 u=042  imp:n=1
04915   6  0.3747366E-01   -17    12   -14    18  -565   566 u=042  imp:n=1
04916   6  0.3747366E-01   -13    12   -18     4  -565   566 u=042  imp:n=1
04917  40  0.5178530E-01   -19   604  -223   222  -670   669 u=042  imp:n=1
04918   7  0.8235419E-01   -19    17  -225   224  -565   567 u=042  imp:n=1
04919   7  0.8235419E-01   -19    17  -225   224  -568   569 u=042  imp:n=1
04920   8  0.7986135E-01  -202    17  -225   224  -567   568 u=042  imp:n=1
04921   8  0.7986135E-01   -19   201  -225   224  -567   568 u=042  imp:n=1
04922   9  0.6943934E-01  -201   202  -226   224  -567   568 u=042  imp:n=1
```

```
04923   9  0.6943934E-01  -201   202  -225   227  -567   568 u=042  imp:n=1
04924  10  0.4603587E-01  -201   202  -227   226  -567   568 u=042  imp:n=1
04925  36  0.6435380E-01   -19   604  -224   228  -565   667 u=042  imp:n=1
04926  38  0.8323048E-01   -19   604  -224   228  -668   669 u=042  imp:n=1
04927  37  0.6435380E-01   -19   604  -224   228  -667   586 u=042  imp:n=1
04928  48  0.1333519E+00   -19   604  -222    18  -667   586 u=042  imp:n=1
04929  24  0.1232187E+00   -19   604  -222    18  -586   587 u=042  imp:n=1
04930  39  0.1185481E+00   -19   604  -229   223  -565   587 u=042  imp:n=1
04931  28  0.1187656E+00   -19   604  -230   225  -565   586 u=042  imp:n=1
04932   7  0.8235419E-01   -19    17  -231   230  -565   567 u=042  imp:n=1
04933   7  0.8235419E-01   -19    17  -231   230  -568   569 u=042  imp:n=1
04934   8  0.7986135E-01  -202    17  -231   230  -567   568 u=042  imp:n=1
04935   8  0.7986135E-01   -19   201  -231   230  -567   568 u=042  imp:n=1
04936   9  0.6943934E-01  -201   202  -232   230  -567   568 u=042  imp:n=1
04937   9  0.6943934E-01  -201   202  -231   233  -567   568 u=042  imp:n=1
04938  10  0.4603587E-01  -201   202  -233   232  -567   568 u=042  imp:n=1
04939  26  0.7164290E-01   -19   604  -235   234  -565   601 u=042  imp:n=1
04940   7  0.8235419E-01   -19    17  -237   236  -565   567 u=042  imp:n=1
04941   7  0.8235419E-01   -19    17  -237   236  -568   569 u=042  imp:n=1
04942   8  0.7986135E-01  -202    17  -237   236  -567   568 u=042  imp:n=1
04943   8  0.7986135E-01   -19   201  -237   236  -567   568 u=042  imp:n=1
04944   9  0.6943934E-01  -201   202  -238   236  -567   568 u=042  imp:n=1
04945   9  0.6943934E-01  -201   202  -237   239  -567   568 u=042  imp:n=1
04946  10  0.4603587E-01  -201   202  -239   238  -567   568 u=042  imp:n=1
04947  25  0.1201037E+00   -19   604   -48   236  -569   600 u=042  imp:n=1
04948  29  0.1183522E+00   -19   604  -240   224  -569   600 u=042  imp:n=1
04949  41  0.5279270E-01   -19   604  -223   222  -565   668 u=042  imp:n=1
04950  42  0.5392130E-01   -19   604  -223   222  -668   670 u=042  imp:n=1
04951  41  0.5279270E-01   -19   604  -228   229  -565   668 u=042  imp:n=1
04952  42  0.5392130E-01   -19   604  -228   229  -668   669 u=042  imp:n=1
04953  49  0.1333121E+00   -19   604  -222    18  -565   692 u=042  imp:n=1
04954  49  0.1333121E+00   -19   604  -222    18  -692   667 u=042  imp:n=1
04955  31  0.2714513E-01   -19   604   -48    18  -669   672 u=042  imp:n=1
04956  32  0.8823003E-01   -75    17   -48    18  -672   673 u=042  imp:n=1
04957  33  0.8829426E-01   -78    17   -48    18  -673   674 u=042  imp:n=1
04958  33  0.8829426E-01   -75    80   -48    18  -673   674 u=042  imp:n=1
04959   0                  -12     9   -14     4  -563   564 u=042 imp:n=1
04960   0                  -10    13   -14     4  -563   564 u=042 imp:n=1
04961   0                  -10     9    -7    14   -81   564 u=042 imp:n=1
04962   0                 -604    17  -228    18  -586   568 u=042 imp:n=1
04963   0                  -19    17  -224   228  -586   668 u=042 imp:n=1
04964   0                 -604    17  -224    18  -565   567 u=042 imp:n=1
04965   0                 -604    17  -224    18  -567   563 u=042 imp:n=1
04966   0                  -10    13   -14     4   -81   563 u=042 imp:n=1
04967   0                 -604    17  -224    18  -667   586 u=042 imp:n=1
04968   0                  -12     9   -14     4   -81   563 u=042 imp:n=1
04969   0                 -604    17  -223   222  -670   669 u=042 imp:n=1
04970   0                  -19    17   -14   224  -600   669 u=042 imp:n=1
04971   0                 -604    17  -224    18  -563   667 u=042 imp:n=1
04972   0                 -604    17  -229   223  -670   587 u=042 imp:n=1
04973   0                 -604    17  -224   229  -670   669 u=042 imp:n=1
04974   0                  -19    17  -229   223  -587   669 u=042 imp:n=1
04975   0                 -604    17  -222    18  -670   587 u=042 imp:n=1
04976   0                  -19    17  -222    18  -587   669 u=042 imp:n=1
04977   0                  -19    17  -230   225  -586   569 u=042 imp:n=1
04978   0                  -19    17  -234   231  -565   569 u=042 imp:n=1
04979   0                  -19    17  -236   235  -565   601 u=042 imp:n=1
04980   0                  -19    17   -14   237  -565   569 u=042 imp:n=1
04981   0                 -604    17  -235   234  -565   601 u=042 imp:n=1
04982   0                 -604    17   -48    18  -669   672 u=042 imp:n=1
04983   0                  -19    75   -48    18  -672   674 u=042 imp:n=1
04984   0                  -80    78   -48    18  -673   674 u=042 imp:n=1
04985   0                  -19    17   -14    48  -669   674 u=042 imp:n=1
04986   0                 -604    17  -230   225  -565   586 u=042 imp:n=1
04987   0                 -604    17  -228    18  -569   668 u=042 imp:n=1
04988   0                  -19    17   -14    18  -674   566 u=042 imp:n=1
04989   0                 -604    17  -228    18  -568   569 u=042 imp:n=1
04990   0                  -19    17  -234   240  -569   601 u=042 imp:n=1
04991   0                 -604    17  -240   224  -569   600 u=042 imp:n=1
04992   0                  -19    17  -236   240  -601   600 u=042 imp:n=1
04993   0                  -19    17   -14    48  -569   600 u=042 imp:n=1
04994   0                 -604    17   -48   236  -569   600 u=042 imp:n=1
04995   0                 -604    17  -224    18  -668   670 u=042 imp:n=1
04996   3  0.8540120E-01    -2     1    -4     3  -564     5 u=042  imp:n=1
04997   3  0.8540120E-01    -2     1    -8     7  -564     5 u=042  imp:n=1
04998   3  0.8540120E-01    -9     1    -7     4  -564     5 u=042  imp:n=1
```

```
04999   3  0.8540120E-01    -2    10    -7     4  -564     5 u=042  imp:n=1
05000  34  0.1035093E+00   -10   608   -83     4  -609   610 u=042  imp:n=1
05001   0                  -10     9    -7     4  -564   609 u=042 imp:n=1
05002   0                  -10     9    -7     4  -610     5 u=042 imp:n=1
05003   0                  -10     9    -7    83  -609   610 u=042 imp:n=1
05004   0                 -608     9   -83     4  -609   610 u=042 imp:n=1
05005   1  0.3030146E-01    -2     1    -4     3   -81   563 u=043  imp:n=1
05006   1  0.3030146E-01    -2     1    -8     7   -81   563 u=043  imp:n=1
05007   2  0.7570860E-01    -9     1    -7     4   -81   563 u=043  imp:n=1
05008   2  0.7570860E-01    -2    10    -7     4   -81   563 u=043  imp:n=1
05009   3  0.8540120E-01    -2     1    -4     3  -563   564 u=043  imp:n=1
05010   3  0.8540120E-01    -2     1    -8     7  -563   564 u=043  imp:n=1
05011   3  0.8540120E-01    -9     1    -7     4  -563   564 u=043  imp:n=1
05012   3  0.8540120E-01    -2    10    -7     4  -563   564 u=043  imp:n=1
05013   4  0.7332760E-01   -13    12   -14     4   -81   565 u=043  imp:n=1
05014   5  0.3966184E-01   -13    12   -14     4  -566   564 u=043  imp:n=1
05015   6  0.3747366E-01   -13    19   -14    18  -565   566 u=043  imp:n=1
05016   6  0.3747366E-01   -17    12   -14    18  -565   566 u=043  imp:n=1
05017   6  0.3747366E-01   -13    12   -18     4  -565   566 u=043  imp:n=1
05018  11  0.7961518E-01  -201   693   -21    18  -565   567 u=043  imp:n=1
05019  11  0.7961518E-01  -201   693   -21    18  -571   572 u=043  imp:n=1
05020  12  0.7714468E-01  -201   693   -21    25  -567   571 u=043  imp:n=1
05021  12  0.7714468E-01  -201   693   -26    18  -567   571 u=043  imp:n=1
05022  13  0.6712964E-01  -201   694   -25    26  -567   571 u=043  imp:n=1
05023  13  0.6712964E-01  -695   693   -25    26  -567   571 u=043  imp:n=1
05024  14  0.4579853E-01  -694   695   -25    26  -567   571 u=043  imp:n=1
05025  11  0.7961518E-01  -201   693   -21    18  -572   575 u=043  imp:n=1
05026  11  0.7961518E-01  -201   693   -21    18  -576   577 u=043  imp:n=1
05027  12  0.7714468E-01  -201   693   -21    25  -575   576 u=043  imp:n=1
05028  12  0.7714468E-01  -201   693   -26    18  -575   576 u=043  imp:n=1
05029  13  0.6712964E-01  -201   694   -25    26  -575   576 u=043  imp:n=1
05030  13  0.6712964E-01  -695   693   -25    26  -575   576 u=043  imp:n=1
05031  14  0.4579853E-01  -694   695   -25    26  -575   576 u=043  imp:n=1
05032  15  0.8003452E-01  -697   696   -21    18  -565   567 u=043  imp:n=1
05033  15  0.8003452E-01  -697   696   -21    18  -568   569 u=043  imp:n=1
05034  16  0.7744373E-01  -697   696   -21    25  -567   568 u=043  imp:n=1
05035  16  0.7744373E-01  -697   696   -26    18  -567   568 u=043  imp:n=1
05036  17  0.6733980E-01  -697   698   -25    26  -567   568 u=043  imp:n=1
05037  17  0.6733980E-01  -699   696   -25    26  -567   568 u=043  imp:n=1
05038  18  0.4487970E-01  -698   699   -25    26  -567   568 u=043  imp:n=1
05039  23  0.1232400E+00  -701   700   -48    18  -565   586 u=043  imp:n=1
05040  24  0.1232187E+00  -701   700   -48    18  -586   587 u=043  imp:n=1
05041  15  0.8003452E-01  -703   702   -21    18  -565   567 u=043  imp:n=1
05042  15  0.8003452E-01  -703   702   -21    18  -568   569 u=043  imp:n=1
05043  16  0.7744373E-01  -703   702   -21    25  -567   568 u=043  imp:n=1
05044  16  0.7744373E-01  -703   702   -26    18  -567   568 u=043  imp:n=1
05045  17  0.6733980E-01  -703   704   -25    26  -567   568 u=043  imp:n=1
05046  17  0.6733980E-01  -705   702   -25    26  -567   568 u=043  imp:n=1
05047  18  0.4487970E-01  -704   705   -25    26  -567   568 u=043  imp:n=1
05048   7  0.8235419E-01  -707   706   -21    18  -565   567 u=043  imp:n=1
05049   7  0.8235419E-01  -707   706   -21    18  -568   569 u=043  imp:n=1
05050   8  0.7986135E-01  -707   706   -21    25  -567   568 u=043  imp:n=1
05051   8  0.7986135E-01  -707   706   -26    18  -567   568 u=043  imp:n=1
05052   9  0.6943934E-01  -707   708   -25    26  -567   568 u=043  imp:n=1
05053   9  0.6943934E-01  -709   706   -25    26  -567   568 u=043  imp:n=1
05054  10  0.4603587E-01  -708   709   -25    26  -567   568 u=043  imp:n=1
05055  59  0.1256220E+00  -117   202   -48    18  -586   587 u=043  imp:n=1
05056  51  0.1119518E+00  -147   146   -48    18  -565   710 u=043  imp:n=1
05057  52  0.1112539E+00  -147   146   -48    18  -710   711 u=043  imp:n=1
05058  29  0.1183522E+00  -201   712   -48    18  -577   602 u=043  imp:n=1
05059  30  0.5464445E-01  -693   697   -48    18  -565   586 u=043  imp:n=1
05060  26  0.7164290E-01  -712   701   -48    18  -565   601 u=043  imp:n=1
05061  26  0.7164290E-01  -700   703   -48    18  -565   601 u=043  imp:n=1
05062  29  0.1183522E+00  -703   713   -48    18  -569   600 u=043  imp:n=1
05063  30  0.5464445E-01  -702   707   -48    18  -565   586 u=043  imp:n=1
05064  58  0.1026764E+00  -117    46   -48    18  -565   586 u=043  imp:n=1
05065  58  0.1026764E+00   -46   264   -48    18  -565   586 u=043  imp:n=1
05066  58  0.1026764E+00  -264   147   -48    18  -565   586 u=043  imp:n=1
05067  58  0.1026764E+00  -147   263   -48    18  -711   586 u=043  imp:n=1
05068  58  0.1026764E+00  -263   146   -48    18  -711   586 u=043  imp:n=1
05069  58  0.1026764E+00  -146   262   -48    18  -565   586 u=043  imp:n=1
05070  58  0.1026764E+00  -262   261   -48    18  -565   586 u=043  imp:n=1
05071  58  0.1026764E+00  -261   202   -48    18  -565   586 u=043  imp:n=1
05072  31  0.2714513E-01   -19   604   -48    18  -602   605 u=043  imp:n=1
05073  32  0.8823003E-01   -75    17   -48    18  -605   606 u=043  imp:n=1
05074  33  0.8829426E-01   -78    17   -48    18  -606   607 u=043  imp:n=1
```

```
05075  33  0.8829426E-01   -75    80   -48    18  -606   607 u=043  imp:n=1
05076   0                   -12     9   -14     4  -563   564 u=043 imp:n=1
05077   0                   -10    13   -14     4  -563   564 u=043 imp:n=1
05078   0                   -10     9    -7    14   -81   564 u=043 imp:n=1
05079   0                  -706    17   -21    48  -563   571 u=043 imp:n=1
05080   0                  -702   707   -21    48  -563   571 u=043 imp:n=1
05081   0                  -696   703   -21    48  -563   571 u=043 imp:n=1
05082   0                  -202    17   -48    26  -567   576 u=043 imp:n=1
05083   0                  -706   117   -48    26  -567   569 u=043 imp:n=1
05084   0                  -706   117   -48    18  -565   567 u=043 imp:n=1
05085   0                  -202    17   -48    18  -565   567 u=043 imp:n=1
05086   0                  -696   712   -48    18  -563   571 u=043 imp:n=1
05087   0                  -693   697   -21    48  -563   571 u=043 imp:n=1
05088   0                   -19   201   -21    18  -563   575 u=043 imp:n=1
05089   0                  -202    17   -26    18  -567   576 u=043 imp:n=1
05090   0                  -706   117   -26    18  -567   569 u=043 imp:n=1
05091   0                   -19   201   -21    18  -565   563 u=043 imp:n=1
05092   0                  -693   697   -21    48  -565   563 u=043 imp:n=1
05093   0                  -696   712   -48    18  -565   563 u=043 imp:n=1
05094   0                  -696   703   -21    48  -565   563 u=043 imp:n=1
05095   0                   -19    17   -14    21  -565   577 u=043 imp:n=1
05096   0                  -702   707   -21    48  -565   563 u=043 imp:n=1
05097   0                  -706    17   -21    48  -565   563 u=043 imp:n=1
05098   0                   -10    13   -14     4   -81   563 u=043 imp:n=1
05099   0                   -12     9   -14     4   -81   563 u=043 imp:n=1
05100   0                  -706    17   -25    48  -571   569 u=043 imp:n=1
05101   0                  -702   707   -25    18  -586   568 u=043 imp:n=1
05102   0                  -696   703   -25    48  -571   569 u=043 imp:n=1
05103   0                  -712   701   -48    18  -601   587 u=043 imp:n=1
05104   0                  -700   703   -48    18  -601   587 u=043 imp:n=1
05105   0                  -202    17   -48    18  -576   587 u=043 imp:n=1
05106   0                  -696   712   -48    26  -571   569 u=043 imp:n=1
05107   0                   -19   201   -48    18  -577   602 u=043 imp:n=1
05108   0                  -702   707   -25    48  -571   586 u=043 imp:n=1
05109   0                  -712   703   -48    18  -587   600 u=043 imp:n=1
05110   0                  -713    17   -48    18  -587   600 u=043 imp:n=1
05111   0                  -712    17   -48    18  -600   602 u=043 imp:n=1
05112   0                  -604    17   -48    18  -602   605 u=043 imp:n=1
05113   0                   -19    75   -48    18  -605   607 u=043 imp:n=1
05114   0                   -80    78   -48    18  -606   607 u=043 imp:n=1
05115   0                  -693   697   -25    26  -586   569 u=043 imp:n=1
05116   0                  -693   697   -25    48  -571   586 u=043 imp:n=1
05117   0                  -693    17   -21    48  -569   577 u=043 imp:n=1
05118   0                   -19    17   -14    48  -577   607 u=043 imp:n=1
05119   0                  -713   117   -48    18  -569   587 u=043 imp:n=1
05120   0                  -693   712   -48    18  -569   577 u=043 imp:n=1
05121   0                   -19    17   -14    18  -607   566 u=043 imp:n=1
05122   0                  -702   707   -21    18  -568   569 u=043 imp:n=1
05123   0                  -693   697   -21    25  -571   569 u=043 imp:n=1
05124   0                  -696   703   -21    25  -571   569 u=043 imp:n=1
05125   0                  -702   707   -21    25  -571   568 u=043 imp:n=1
05126   0                  -706    17   -21    25  -571   569 u=043 imp:n=1
05127   0                  -693   697   -26    18  -586   569 u=043 imp:n=1
05128   0                  -696   712   -26    18  -571   569 u=043 imp:n=1
05129   0                   -19   201   -21    18  -575   577 u=043 imp:n=1
05130   3  0.8540120E-01    -2     1    -4     3  -564     5 u=043  imp:n=1
05131   3  0.8540120E-01    -2     1    -8     7  -564     5 u=043  imp:n=1
05132   3  0.8540120E-01    -9     1    -7     4  -564     5 u=043  imp:n=1
05133   3  0.8540120E-01    -2    10    -7     4  -564     5 u=043  imp:n=1
05134  34  0.1035093E+00   -10   608   -83     4  -609   610 u=043  imp:n=1
05135   0                  -10     9    -7     4  -564   609 u=043 imp:n=1
05136   0                  -10     9    -7     4  -610     5 u=043 imp:n=1
05137   0                  -10     9    -7    83  -609   610 u=043 imp:n=1
05138   0                 -608     9   -83     4  -609   610 u=043 imp:n=1
05139   1  0.3030146E-01    -2     1    -4     3   -81   563 u=044  imp:n=1
05140   1  0.3030146E-01    -2     1    -8     7   -81   563 u=044  imp:n=1
05141   2  0.7570860E-01    -9     1    -7     4   -81   563 u=044  imp:n=1
05142   2  0.7570860E-01    -2    10    -7     4   -81   563 u=044  imp:n=1
05143   3  0.8540120E-01    -2     1    -4     3  -563   564 u=044  imp:n=1
05144   3  0.8540120E-01    -2     1    -8     7  -563   564 u=044  imp:n=1
05145   3  0.8540120E-01    -9     1    -7     4  -563   564 u=044  imp:n=1
05146   3  0.8540120E-01    -2    10    -7     4  -563   564 u=044  imp:n=1
05147   4  0.7332760E-01   -13    12   -14     4   -81   565 u=044  imp:n=1
05148   5  0.3966184E-01   -13    12   -14     4  -566   564 u=044  imp:n=1
05149   6  0.3747366E-01   -13    19   -14    18  -565   566 u=044  imp:n=1
05150   6  0.3747366E-01   -17    12   -14    18  -565   566 u=044  imp:n=1
```

```
05151   6  0.3747366E-01   -13    12   -18     4  -565   566 u=044  imp:n=1
05152  59  0.1256220E+00  -165   159   -48    18  -586   587 u=044  imp:n=1
05153  51  0.1119518E+00  -120   119   -48    18  -565   710 u=044  imp:n=1
05154  52  0.1112539E+00  -120   119   -48    18  -710   711 u=044  imp:n=1
05155   7  0.8235419E-01  -159   675   -21    18  -565   567 u=044  imp:n=1
05156   7  0.8235419E-01  -159   675   -21    18  -568   569 u=044  imp:n=1
05157   8  0.7986135E-01  -159   675   -21    25  -567   568 u=044  imp:n=1
05158   8  0.7986135E-01  -159   675   -26    18  -567   568 u=044  imp:n=1
05159   9  0.6943934E-01  -159   676   -25    26  -567   568 u=044  imp:n=1
05160   9  0.6943934E-01  -677   675   -25    26  -567   568 u=044  imp:n=1
05161  10  0.4603587E-01  -676   677   -25    26  -567   568 u=044  imp:n=1
05162  15  0.8003452E-01  -679   678   -21    18  -565   567 u=044  imp:n=1
05163  15  0.8003452E-01  -679   678   -21    18  -568   569 u=044  imp:n=1
05164  16  0.7744373E-01  -679   678   -21    25  -567   568 u=044  imp:n=1
05165  16  0.7744373E-01  -679   678   -26    18  -567   568 u=044  imp:n=1
05166  17  0.6733980E-01  -679   680   -25    26  -567   568 u=044  imp:n=1
05167  17  0.6733980E-01  -681   678   -25    26  -567   568 u=044  imp:n=1
05168  18  0.4487970E-01  -680   681   -25    26  -567   568 u=044  imp:n=1
05169  23  0.1232400E+00  -147   146   -48    18  -565   586 u=044  imp:n=1
05170  24  0.1232187E+00  -147   146   -48    18  -586   587 u=044  imp:n=1
05171  15  0.8003452E-01  -167   684   -21    18  -565   567 u=044  imp:n=1
05172  15  0.8003452E-01  -167   684   -21    18  -568   569 u=044  imp:n=1
05173  16  0.7744373E-01  -167   684   -21    25  -567   568 u=044  imp:n=1
05174  16  0.7744373E-01  -167   684   -26    18  -567   568 u=044  imp:n=1
05175  17  0.6733980E-01  -167   686   -25    26  -567   568 u=044  imp:n=1
05176  17  0.6733980E-01  -687   684   -25    26  -567   568 u=044  imp:n=1
05177  18  0.4487970E-01  -686   687   -25    26  -567   568 u=044  imp:n=1
05178  11  0.7961518E-01  -689   688   -21    18  -565   567 u=044  imp:n=1
05179  11  0.7961518E-01  -689   688   -21    18  -571   572 u=044  imp:n=1
05180  12  0.7714468E-01  -689   688   -21    25  -567   571 u=044  imp:n=1
05181  12  0.7714468E-01  -689   688   -26    18  -567   571 u=044  imp:n=1
05182  13  0.6712964E-01  -689   690   -25    26  -567   571 u=044  imp:n=1
05183  13  0.6712964E-01  -691   688   -25    26  -567   571 u=044  imp:n=1
05184  14  0.4579853E-01  -690   691   -25    26  -567   571 u=044  imp:n=1
05185  11  0.7961518E-01  -689   688   -21    18  -572   575 u=044  imp:n=1
05186  11  0.7961518E-01  -689   688   -21    18  -576   577 u=044  imp:n=1
05187  12  0.7714468E-01  -689   688   -21    25  -575   576 u=044  imp:n=1
05188  12  0.7714468E-01  -689   688   -26    18  -575   576 u=044  imp:n=1
05189  13  0.6712964E-01  -689   690   -25    26  -575   576 u=044  imp:n=1
05190  13  0.6712964E-01  -691   688   -25    26  -575   576 u=044  imp:n=1
05191  14  0.4579853E-01  -690   691   -25    26  -575   576 u=044  imp:n=1
05192  58  0.1026764E+00  -165   164   -48    18  -565   586 u=044  imp:n=1
05193  58  0.1026764E+00  -164   714   -48    18  -565   586 u=044  imp:n=1
05194  58  0.1026764E+00  -714   120   -48    18  -565   586 u=044  imp:n=1
05195  58  0.1026764E+00  -120    72   -48    18  -711   586 u=044  imp:n=1
05196  58  0.1026764E+00   -72   119   -48    18  -711   586 u=044  imp:n=1
05197  58  0.1026764E+00  -119   715   -48    18  -565   586 u=044  imp:n=1
05198  58  0.1026764E+00  -715   716   -48    18  -565   586 u=044  imp:n=1
05199  58  0.1026764E+00  -716   159   -48    18  -565   586 u=044  imp:n=1
05200  29  0.1183522E+00  -159   148   -48    18  -569   600 u=044  imp:n=1
05201  30  0.5464445E-01  -675   679   -48    18  -565   586 u=044  imp:n=1
05202  26  0.7164290E-01  -148   147   -48    18  -565   601 u=044  imp:n=1
05203  26  0.7164290E-01  -146   167   -48    18  -565   601 u=044  imp:n=1
05204  29  0.1183522E+00  -167   138   -48    18  -577   602 u=044  imp:n=1
05205  30  0.5464445E-01  -684   689   -48    18  -565   586 u=044  imp:n=1
05206  31  0.2714513E-01   -19   604   -48    18  -602   605 u=044  imp:n=1
05207  32  0.8823003E-01   -75    17   -48    18  -605   606 u=044  imp:n=1
05208  33  0.8829426E-01   -78    17   -48    18  -606   607 u=044  imp:n=1
05209  33  0.8829426E-01   -75    80   -48    18  -606   607 u=044  imp:n=1
05210   0                  -12     9   -14     4  -563   564 u=044 imp:n=1
05211   0                  -10    13   -14     4  -563   564 u=044 imp:n=1
05212   0                  -10     9    -7    14   -81   564 u=044 imp:n=1
05213   0                 -688    17   -21    18  -711   586 u=044 imp:n=1
05214   0                 -684   689   -21    48  -711   586 u=044 imp:n=1
05215   0                 -678   167   -21    48  -711   586 u=044 imp:n=1
05216   0                 -678   148   -48    18  -565   563 u=044 imp:n=1
05217   0                 -678   148   -48    18  -711   586 u=044 imp:n=1
05218   0                 -675   679   -21    48  -711   586 u=044 imp:n=1
05219   0                  -19   159   -21    48  -711   586 u=044 imp:n=1
05220   0                  -19   165   -48    18  -565   587 u=044 imp:n=1
05221   0                 -684   689   -21    48  -565   567 u=044 imp:n=1
05222   0                 -688    17   -21    18  -565   567 u=044 imp:n=1
05223   0                  -19   159   -21    48  -565   563 u=044 imp:n=1
05224   0                  -19    17   -14    21  -565   577 u=044 imp:n=1
05225   0                 -675   679   -21    48  -565   563 u=044 imp:n=1
05226   0                 -678   167   -21    48  -565   563 u=044 imp:n=1
```

```
05227   0                  -10    13   -14     4   -81   563 u=044 imp:n=1
05228   0                  -12     9   -14     4   -81   563 u=044 imp:n=1
05229   0                 -688    17   -25    48  -567   711 u=044 imp:n=1
05230   0                 -684   689   -25    48  -567   711 u=044 imp:n=1
05231   0                 -148   147   -48    18  -601   587 u=044 imp:n=1
05232   0                 -146   167   -48    18  -601   587 u=044 imp:n=1
05233   0                 -167   689   -48    18  -569   577 u=044 imp:n=1
05234   0                 -688    17   -48    18  -569   577 u=044 imp:n=1
05235   0                 -675   679   -48    18  -586   569 u=044 imp:n=1
05236   0                 -678   148   -48    18  -586   569 u=044 imp:n=1
05237   0                 -678   167   -21    48  -710   711 u=044 imp:n=1
05238   0                 -675   679   -21    48  -710   711 u=044 imp:n=1
05239   0                  -19   159   -21    48  -710   711 u=044 imp:n=1
05240   0                 -684   689   -21    18  -568   569 u=044 imp:n=1
05241   0                 -688    17   -21    25  -567   711 u=044 imp:n=1
05242   0                 -684   689   -21    25  -567   711 u=044 imp:n=1
05243   0                 -688    17   -21    18  -568   569 u=044 imp:n=1
05244   0                  -19   689   -21    48  -569   577 u=044 imp:n=1
05245   0                 -688    17   -21    48  -569   577 u=044 imp:n=1
05246   0                  -19   159   -21    48  -586   569 u=044 imp:n=1
05247   0                 -675   679   -21    48  -586   569 u=044 imp:n=1
05248   0                 -678   167   -21    48  -586   569 u=044 imp:n=1
05249   0                 -684   689   -21    18  -586   568 u=044 imp:n=1
05250   0                 -688    17   -21    18  -586   568 u=044 imp:n=1
05251   0                  -19   159   -48    18  -587   600 u=044 imp:n=1
05252   0                 -688    17   -48    26  -567   711 u=044 imp:n=1
05253   0                 -148   167   -48    18  -587   600 u=044 imp:n=1
05254   0                  -19   167   -48    18  -600   602 u=044 imp:n=1
05255   0                 -138    17   -48    18  -577   602 u=044 imp:n=1
05256   0                 -678   148   -48    18  -710   711 u=044 imp:n=1
05257   0                 -688    17   -26    18  -567   711 u=044 imp:n=1
05258   0                 -604    17   -48    18  -602   605 u=044 imp:n=1
05259   0                  -19    75   -48    18  -605   607 u=044 imp:n=1
05260   0                  -80    78   -48    18  -606   607 u=044 imp:n=1
05261   0                  -19    17   -14    48  -577   607 u=044 imp:n=1
05262   0                  -19    17   -14    18  -607   566 u=044 imp:n=1
05263   0                 -678   148   -48    18  -563   710 u=044 imp:n=1
05264   0                  -19   159   -21    48  -563   710 u=044 imp:n=1
05265   0                 -678   167   -21    48  -563   710 u=044 imp:n=1
05266   0                 -675   679   -21    48  -563   710 u=044 imp:n=1
05267   3  0.8540120E-01    -2     1    -4     3  -564     5 u=044  imp:n=1
05268   3  0.8540120E-01    -2     1    -8     7  -564     5 u=044  imp:n=1
05269   3  0.8540120E-01    -9     1    -7     4  -564     5 u=044  imp:n=1
05270   3  0.8540120E-01    -2    10    -7     4  -564     5 u=044  imp:n=1
05271  34  0.1035093E+00   -10   608   -83     4  -609   610 u=044  imp:n=1
05272   0                  -10     9    -7     4  -564   609 u=044 imp:n=1
05273   0                  -10     9    -7     4  -610     5 u=044 imp:n=1
05274   0                  -10     9    -7    83  -609   610 u=044 imp:n=1
05275   0                 -608     9   -83     4  -609   610 u=044 imp:n=1
05276   1  0.3030146E-01    -2     1    -4     3   -81   563 u=045  imp:n=1
05277   1  0.3030146E-01    -2     1    -8     7   -81   563 u=045  imp:n=1
05278   2  0.7570860E-01    -9     1    -7     4   -81   563 u=045  imp:n=1
05279   2  0.7570860E-01    -2    10    -7     4   -81   563 u=045  imp:n=1
05280   3  0.8540120E-01    -2     1    -4     3  -563   564 u=045  imp:n=1
05281   3  0.8540120E-01    -2     1    -8     7  -563   564 u=045  imp:n=1
05282   3  0.8540120E-01    -9     1    -7     4  -563   564 u=045  imp:n=1
05283   3  0.8540120E-01    -2    10    -7     4  -563   564 u=045  imp:n=1
05284   4  0.7332760E-01   -13    12   -14     4   -81   565 u=045  imp:n=1
05285   5  0.3966184E-01   -13    12   -14     4  -566   564 u=045  imp:n=1
05286   6  0.3747366E-01   -13    19   -14    18  -565   566 u=045  imp:n=1
05287   6  0.3747366E-01   -17    12   -14    18  -565   566 u=045  imp:n=1
05288   6  0.3747366E-01   -13    12   -18     4  -565   566 u=045  imp:n=1
05289  59  0.1256220E+00  -718   717   -48    18  -586   587 u=045  imp:n=1
05290   7  0.8235419E-01  -302   718   -21    18  -565   567 u=045  imp:n=1
05291   7  0.8235419E-01  -302   718   -21    18  -568   569 u=045  imp:n=1
05292   8  0.7986135E-01  -302   718   -21    25  -567   568 u=045  imp:n=1
05293   8  0.7986135E-01  -302   718   -26    18  -567   568 u=045  imp:n=1
05294   9  0.6943934E-01  -302   719   -25    26  -567   568 u=045  imp:n=1
05295   9  0.6943934E-01  -247   718   -25    26  -567   568 u=045  imp:n=1
05296  10  0.4603587E-01  -719   247   -25    26  -567   568 u=045  imp:n=1
05297   7  0.8235419E-01  -717   720   -21    18  -565   567 u=045  imp:n=1
05298   7  0.8235419E-01  -717   720   -21    18  -568   569 u=045  imp:n=1
05299   8  0.7986135E-01  -717   720   -21    25  -567   568 u=045  imp:n=1
05300   8  0.7986135E-01  -717   720   -26    18  -567   568 u=045  imp:n=1
05301   9  0.6943934E-01  -717   721   -25    26  -567   568 u=045  imp:n=1
05302   9  0.6943934E-01  -722   720   -25    26  -567   568 u=045  imp:n=1
```

```
05303  10  0.4603587E-01  -721   722   -25    26  -567   568 u=045  imp:n=1
05304  51  0.1119518E+00  -724   723   -48    18  -565   710 u=045  imp:n=1
05305  52  0.1112539E+00  -724   723   -48    18  -710   711 u=045  imp:n=1
05306  11  0.7961518E-01  -726   725   -21    18  -565   567 u=045  imp:n=1
05307  11  0.7961518E-01  -726   725   -21    18  -571   572 u=045  imp:n=1
05308  12  0.7714468E-01  -726   725   -21    25  -567   571 u=045  imp:n=1
05309  12  0.7714468E-01  -726   725   -26    18  -567   571 u=045  imp:n=1
05310  13  0.6712964E-01  -726   727   -25    26  -567   571 u=045  imp:n=1
05311  13  0.6712964E-01  -728   725   -25    26  -567   571 u=045  imp:n=1
05312  14  0.4579853E-01  -727   728   -25    26  -567   571 u=045  imp:n=1
05313  11  0.7961518E-01  -726   725   -21    18  -572   575 u=045  imp:n=1
05314  11  0.7961518E-01  -726   725   -21    18  -576   577 u=045  imp:n=1
05315  12  0.7714468E-01  -726   725   -21    25  -575   576 u=045  imp:n=1
05316  12  0.7714468E-01  -726   725   -26    18  -575   576 u=045  imp:n=1
05317  13  0.6712964E-01  -726   727   -25    26  -575   576 u=045  imp:n=1
05318  13  0.6712964E-01  -728   725   -25    26  -575   576 u=045  imp:n=1
05319  14  0.4579853E-01  -727   728   -25    26  -575   576 u=045  imp:n=1
05320  11  0.7961518E-01  -306   729   -21    18  -565   567 u=045  imp:n=1
05321  11  0.7961518E-01  -306   729   -21    18  -571   572 u=045  imp:n=1
05322  12  0.7714468E-01  -306   729   -21    25  -567   571 u=045  imp:n=1
05323  12  0.7714468E-01  -306   729   -26    18  -567   571 u=045  imp:n=1
05324  13  0.6712964E-01  -306   730   -25    26  -567   571 u=045  imp:n=1
05325  13  0.6712964E-01  -303   729   -25    26  -567   571 u=045  imp:n=1
05326  14  0.4579853E-01  -730   303   -25    26  -567   571 u=045  imp:n=1
05327  11  0.7961518E-01  -306   729   -21    18  -572   575 u=045  imp:n=1
05328  11  0.7961518E-01  -306   729   -21    18  -576   577 u=045  imp:n=1
05329  12  0.7714468E-01  -306   729   -21    25  -575   576 u=045  imp:n=1
05330  12  0.7714468E-01  -306   729   -26    18  -575   576 u=045  imp:n=1
05331  13  0.6712964E-01  -306   730   -25    26  -575   576 u=045  imp:n=1
05332  13  0.6712964E-01  -303   729   -25    26  -575   576 u=045  imp:n=1
05333  14  0.4579853E-01  -730   303   -25    26  -575   576 u=045  imp:n=1
05334   7  0.8235419E-01  -732   731   -21    18  -565   567 u=045  imp:n=1
05335   7  0.8235419E-01  -732   731   -21    18  -568   569 u=045  imp:n=1
05336   8  0.7986135E-01  -732   731   -21    25  -567   568 u=045  imp:n=1
05337   8  0.7986135E-01  -732   731   -26    18  -567   568 u=045  imp:n=1
05338   9  0.6943934E-01  -732   733   -25    26  -567   568 u=045  imp:n=1
05339   9  0.6943934E-01  -734   731   -25    26  -567   568 u=045  imp:n=1
05340  10  0.4603587E-01  -733   734   -25    26  -567   568 u=045  imp:n=1
05341   7  0.8235419E-01  -735   308   -21    18  -565   567 u=045  imp:n=1
05342   7  0.8235419E-01  -735   308   -21    18  -568   569 u=045  imp:n=1
05343   8  0.7986135E-01  -735   308   -21    25  -567   568 u=045  imp:n=1
05344   8  0.7986135E-01  -735   308   -26    18  -567   568 u=045  imp:n=1
05345   9  0.6943934E-01  -735   307   -25    26  -567   568 u=045  imp:n=1
05346   9  0.6943934E-01  -736   308   -25    26  -567   568 u=045  imp:n=1
05347  10  0.4603587E-01  -307   736   -25    26  -567   568 u=045  imp:n=1
05348  58  0.1026764E+00  -737   717   -48    18  -565   586 u=045  imp:n=1
05349  58  0.1026764E+00  -738   737   -48    18  -565   586 u=045  imp:n=1
05350  58  0.1026764E+00  -723   738   -48    18  -565   586 u=045  imp:n=1
05351  58  0.1026764E+00  -739   724   -48    18  -565   586 u=045  imp:n=1
05352  58  0.1026764E+00  -740   739   -48    18  -565   586 u=045  imp:n=1
05353  58  0.1026764E+00  -718   740   -48    18  -565   586 u=045  imp:n=1
05354  29  0.1183522E+00  -717   741   -48    18  -577   602 u=045  imp:n=1
05355  29  0.1183522E+00  -742   301   -48    18  -577   602 u=045  imp:n=1
05356  58  0.1026764E+00  -743   723   -48    18  -711   586 u=045  imp:n=1
05357  58  0.1026764E+00  -724   743   -48    18  -711   586 u=045  imp:n=1
05358  28  0.1187656E+00  -720   726   -48    18  -565   586 u=045  imp:n=1
05359  28  0.1187656E+00  -729   302   -48    18  -565   586 u=045  imp:n=1
05360  26  0.7164290E-01  -308   742   -48    18  -565   601 u=045  imp:n=1
05361  26  0.7164290E-01  -741   732   -48    18  -565   601 u=045  imp:n=1
05362  25  0.1201037E+00  -732   744   -48    18  -569   600 u=045  imp:n=1
05363  25  0.1201037E+00  -735   745   -48    18  -569   600 u=045  imp:n=1
05364  31  0.2714513E-01   -19   604   -48    18  -602   605 u=045  imp:n=1
05365  32  0.8823003E-01   -75    17   -48    18  -605   606 u=045  imp:n=1
05366  33  0.8829426E-01   -78    17   -48    18  -606   607 u=045  imp:n=1
05367  33  0.8829426E-01   -75    80   -48    18  -606   607 u=045  imp:n=1
05368   0                  -12     9   -14     4  -563   564 u=045 imp:n=1
05369   0                  -10    13   -14     4  -563   564 u=045 imp:n=1
05370   0                  -10     9    -7    14   -81   564 u=045 imp:n=1
05371   0                 -731    17   -25    26  -567   586 u=045 imp:n=1
05372   0                 -725   732   -25    48  -567   569 u=045 imp:n=1
05373   0                 -725   741   -48    26  -567   576 u=045 imp:n=1
05374   0                 -720   726   -25    48  -567   569 u=045 imp:n=1
05375   0                  -19   735   -21    18  -565   567 u=045 imp:n=1
05376   0                 -742   306   -48    18  -565   567 u=045 imp:n=1
05377   0                 -308   306   -21    48  -565   567 u=045 imp:n=1
05378   0                 -729   302   -21    48  -565   567 u=045 imp:n=1
```

```
05379   0                -720   726   -21    48  -565   567 u=045 imp:n=1
05380   0                -725   741   -48    18  -565   567 u=045 imp:n=1
05381   0                -725   732   -21    48  -565   567 u=045 imp:n=1
05382   0                -731    17   -21    18  -565   567 u=045 imp:n=1
05383   0                -718   717   -21    48  -565   563 u=045 imp:n=1
05384   0                 -10    13   -14     4   -81   563 u=045 imp:n=1
05385   0                 -12     9   -14     4   -81   563 u=045 imp:n=1
05386   0                -718   717   -21    48  -563   586 u=045 imp:n=1
05387   0                -729   302   -48    18  -568   569 u=045 imp:n=1
05388   0                -742   306   -48    18  -576   577 u=045 imp:n=1
05389   0                -729   302   -25    48  -567   569 u=045 imp:n=1
05390   0                -308   306   -25    48  -567   569 u=045 imp:n=1
05391   0                -742   306   -48    26  -567   576 u=045 imp:n=1
05392   0                 -19   735   -25    26  -567   586 u=045 imp:n=1
05393   0                -301   718   -48    18  -577   587 u=045 imp:n=1
05394   0                 -19   735   -48    18  -569   576 u=045 imp:n=1
05395   0                -745   308   -48    18  -569   601 u=045 imp:n=1
05396   0                -729   718   -48    18  -569   577 u=045 imp:n=1
05397   0                 -19   735   -48    26  -586   569 u=045 imp:n=1
05398   0                -729   302   -48    18  -586   568 u=045 imp:n=1
05399   0                -720   726   -48    18  -568   569 u=045 imp:n=1
05400   0                -725   741   -48    18  -576   577 u=045 imp:n=1
05401   0                -717   726   -48    18  -569   577 u=045 imp:n=1
05402   0                -744    17   -48    18  -569   576 u=045 imp:n=1
05403   0                -720   726   -48    18  -586   568 u=045 imp:n=1
05404   0                -731    17   -48    26  -586   569 u=045 imp:n=1
05405   0                -731    17   -26    18  -567   569 u=045 imp:n=1
05406   0                -725   741   -26    18  -567   576 u=045 imp:n=1
05407   0                 -19   306   -21    48  -569   577 u=045 imp:n=1
05408   0                -729   726   -21    48  -569   577 u=045 imp:n=1
05409   0                -725    17   -21    48  -569   577 u=045 imp:n=1
05410   0                 -19   735   -25    48  -586   569 u=045 imp:n=1
05411   0                -718   717   -21    48  -586   569 u=045 imp:n=1
05412   0                -731    17   -25    48  -586   569 u=045 imp:n=1
05413   0                -742   306   -26    18  -567   576 u=045 imp:n=1
05414   0                 -19   735   -26    18  -567   569 u=045 imp:n=1
05415   0                 -19   735   -48    18  -576   600 u=045 imp:n=1
05416   0                -745   742   -48    18  -601   600 u=045 imp:n=1
05417   0                 -19   742   -48    18  -600   602 u=045 imp:n=1
05418   0                -301   717   -48    18  -587   602 u=045 imp:n=1
05419   0                -741   732   -48    18  -601   600 u=045 imp:n=1
05420   0                -744    17   -48    18  -576   600 u=045 imp:n=1
05421   0                 -19    17   -14    21  -565   577 u=045 imp:n=1
05422   0                -731    17   -21    25  -567   569 u=045 imp:n=1
05423   0                -725   732   -21    25  -567   569 u=045 imp:n=1
05424   0                -720   726   -21    25  -567   569 u=045 imp:n=1
05425   0                -741    17   -48    18  -600   602 u=045 imp:n=1
05426   0                -604    17   -48    18  -602   605 u=045 imp:n=1
05427   0                 -19    75   -48    18  -605   607 u=045 imp:n=1
05428   0                 -80    78   -48    18  -606   607 u=045 imp:n=1
05429   0                 -19    17   -14    48  -577   607 u=045 imp:n=1
05430   0                 -19    17   -14    18  -607   566 u=045 imp:n=1
05431   0                 -19   735   -21    25  -567   569 u=045 imp:n=1
05432   0                -308   306   -21    25  -567   569 u=045 imp:n=1
05433   0                -729   302   -21    25  -567   569 u=045 imp:n=1
05434   3  0.8540120E-01   -2     1    -4     3  -564     5 u=045  imp:n=1
05435   3  0.8540120E-01   -2     1    -8     7  -564     5 u=045  imp:n=1
05436   3  0.8540120E-01   -9     1    -7     4  -564     5 u=045  imp:n=1
05437   3  0.8540120E-01   -2    10    -7     4  -564     5 u=045  imp:n=1
05438  34  0.1035093E+00  -10   608   -83     4  -609   610 u=045  imp:n=1
05439   0                 -10     9    -7     4  -564   609 u=045 imp:n=1
05440   0                 -10     9    -7     4  -610     5 u=045 imp:n=1
05441   0                 -10     9    -7    83  -609   610 u=045 imp:n=1
05442   0                -608     9   -83     4  -609   610 u=045 imp:n=1
05443   1  0.3030146E-01   -2     1    -4     3   -81   563 u=046  imp:n=1
05444   1  0.3030146E-01   -2     1    -8     7   -81   563 u=046  imp:n=1
05445   2  0.7570860E-01   -9     1    -7     4   -81   563 u=046  imp:n=1
05446   2  0.7570860E-01   -2    10    -7     4   -81   563 u=046  imp:n=1
05447   3  0.8540120E-01   -2     1    -4     3  -563   564 u=046  imp:n=1
05448   3  0.8540120E-01   -2     1    -8     7  -563   564 u=046  imp:n=1
05449   3  0.8540120E-01   -9     1    -7     4  -563   564 u=046  imp:n=1
05450   3  0.8540120E-01   -2    10    -7     4  -563   564 u=046  imp:n=1
05451   4  0.7332760E-01  -13    12   -14     4   -81   565 u=046  imp:n=1
05452   5  0.3966184E-01  -13    12   -14     4  -566   564 u=046  imp:n=1
05453   6  0.3747366E-01  -13    19   -14    18  -565   566 u=046  imp:n=1
05454   6  0.3747366E-01  -17    12   -14    18  -565   566 u=046  imp:n=1
```

```
05455   6  0.3747366E-01   -13    12   -18     4  -565   566 u=046  imp:n=1
05456   7  0.8235419E-01  -201   693   -21    18  -565   567 u=046  imp:n=1
05457   7  0.8235419E-01  -201   693   -21    18  -568   569 u=046  imp:n=1
05458   8  0.7986135E-01  -201   693   -21    25  -567   568 u=046  imp:n=1
05459   8  0.7986135E-01  -201   693   -26    18  -567   568 u=046  imp:n=1
05460   9  0.6943934E-01  -201   694   -25    26  -567   568 u=046  imp:n=1
05461   9  0.6943934E-01  -695   693   -25    26  -567   568 u=046  imp:n=1
05462  10  0.4603587E-01  -694   695   -25    26  -567   568 u=046  imp:n=1
05463  53  0.8228339E-01  -201   247   -48    18  -602   746 u=046  imp:n=1
05464  54  0.2192774E-01  -201   247   -48    18  -747   748 u=046  imp:n=1
05465  55  0.7070584E-01  -201   247   -48   251  -746   747 u=046  imp:n=1
05466  55  0.7070584E-01  -201   247  -252    18  -746   747 u=046  imp:n=1
05467  56  0.6618348E-01  -201   256  -251   252  -746   747 u=046  imp:n=1
05468  56  0.6618348E-01  -255   247  -251   252  -746   747 u=046  imp:n=1
05469   0                 -256   255  -251   252  -746   747 u=046 imp:n=1
05470  11  0.7961518E-01  -750   749   -21    18  -565   567 u=046  imp:n=1
05471  11  0.7961518E-01  -750   749   -21    18  -571   572 u=046  imp:n=1
05472  12  0.7714468E-01  -750   749   -21    25  -567   571 u=046  imp:n=1
05473  12  0.7714468E-01  -750   749   -26    18  -567   571 u=046  imp:n=1
05474  13  0.6712964E-01  -750   751   -25    26  -567   571 u=046  imp:n=1
05475  13  0.6712964E-01  -752   749   -25    26  -567   571 u=046  imp:n=1
05476  14  0.4579853E-01  -751   752   -25    26  -567   571 u=046  imp:n=1
05477  11  0.7961518E-01  -750   749   -21    18  -572   575 u=046  imp:n=1
05478  11  0.7961518E-01  -750   749   -21    18  -576   577 u=046  imp:n=1
05479  12  0.7714468E-01  -750   749   -21    25  -575   576 u=046  imp:n=1
05480  12  0.7714468E-01  -750   749   -26    18  -575   576 u=046  imp:n=1
05481  13  0.6712964E-01  -750   751   -25    26  -575   576 u=046  imp:n=1
05482  13  0.6712964E-01  -752   749   -25    26  -575   576 u=046  imp:n=1
05483  14  0.4579853E-01  -751   752   -25    26  -575   576 u=046  imp:n=1
05484   7  0.8235419E-01  -754   753   -21    18  -565   567 u=046  imp:n=1
05485   7  0.8235419E-01  -754   753   -21    18  -568   569 u=046  imp:n=1
05486   8  0.7986135E-01  -754   753   -21    25  -567   568 u=046  imp:n=1
05487   8  0.7986135E-01  -754   753   -26    18  -567   568 u=046  imp:n=1
05488   9  0.6943934E-01  -754   755   -25    26  -567   568 u=046  imp:n=1
05489   9  0.6943934E-01  -756   753   -25    26  -567   568 u=046  imp:n=1
05490  10  0.4603587E-01  -755   756   -25    26  -567   568 u=046  imp:n=1
05491  50  0.1387665E+00  -247   263   -48    18  -565   586 u=046  imp:n=1
05492  51  0.1119518E+00   -47    46   -48    18  -601   757 u=046  imp:n=1
05493  53  0.8228339E-01  -263   202   -48    18  -602   746 u=046  imp:n=1
05494  54  0.2192774E-01  -263   202   -48    18  -747   748 u=046  imp:n=1
05495  55  0.7070584E-01  -263   202   -48   251  -746   747 u=046  imp:n=1
05496  55  0.7070584E-01  -263   202  -252    18  -746   747 u=046  imp:n=1
05497  56  0.6618348E-01  -263   267  -251   252  -746   747 u=046  imp:n=1
05498  56  0.6618348E-01  -266   202  -251   252  -746   747 u=046  imp:n=1
05499   0                 -267   266  -251   252  -746   747 u=046 imp:n=1
05500  11  0.7961518E-01  -759   758   -21    18  -565   567 u=046  imp:n=1
05501  11  0.7961518E-01  -759   758   -21    18  -571   572 u=046  imp:n=1
05502  12  0.7714468E-01  -759   758   -21    25  -567   571 u=046  imp:n=1
05503  12  0.7714468E-01  -759   758   -26    18  -567   571 u=046  imp:n=1
05504  13  0.6712964E-01  -759   760   -25    26  -567   571 u=046  imp:n=1
05505  13  0.6712964E-01  -761   758   -25    26  -567   571 u=046  imp:n=1
05506  14  0.4579853E-01  -760   761   -25    26  -567   571 u=046  imp:n=1
05507  11  0.7961518E-01  -759   758   -21    18  -572   575 u=046  imp:n=1
05508  11  0.7961518E-01  -759   758   -21    18  -576   577 u=046  imp:n=1
05509  12  0.7714468E-01  -759   758   -21    25  -575   576 u=046  imp:n=1
05510  12  0.7714468E-01  -759   758   -26    18  -575   576 u=046  imp:n=1
05511  13  0.6712964E-01  -759   760   -25    26  -575   576 u=046  imp:n=1
05512  13  0.6712964E-01  -761   758   -25    26  -575   576 u=046  imp:n=1
05513  14  0.4579853E-01  -760   761   -25    26  -575   576 u=046  imp:n=1
05514   7  0.8235419E-01  -172   734   -21    18  -565   567 u=046  imp:n=1
05515   7  0.8235419E-01  -172   734   -21    18  -568   569 u=046  imp:n=1
05516   8  0.7986135E-01  -172   734   -21    25  -567   568 u=046  imp:n=1
05517   8  0.7986135E-01  -172   734   -26    18  -567   568 u=046  imp:n=1
05518   9  0.6943934E-01  -172   732   -25    26  -567   568 u=046  imp:n=1
05519   9  0.6943934E-01  -744   734   -25    26  -567   568 u=046  imp:n=1
05520  10  0.4603587E-01  -732   744   -25    26  -567   568 u=046  imp:n=1
05521  25  0.1201037E+00  -201   762   -48    18  -577   602 u=046  imp:n=1
05522  26  0.7164290E-01  -693   750   -48    18  -565   601 u=046  imp:n=1
05523  29  0.1183522E+00  -750   763   -48    18  -577   602 u=046  imp:n=1
05524  28  0.1187656E+00  -749   754   -48    18  -565   586 u=046  imp:n=1
05525  58  0.1026764E+00  -247   183   -48    18  -586   764 u=046  imp:n=1
05526  58  0.1026764E+00  -183   289   -48    18  -586   764 u=046  imp:n=1
05527  58  0.1026764E+00  -289    47   -48    18  -586   764 u=046  imp:n=1
05528  58  0.1026764E+00   -47   117   -48    18  -586   765 u=046  imp:n=1
05529  52  0.1112539E+00   -47    46   -48    18  -765   601 u=046  imp:n=1
05530  52  0.1112539E+00   -47    46   -48    18  -757   766 u=046  imp:n=1
```

```
05531  58  0.1026764E+00   -47    46   -48    18  -766   764 u=046  imp:n=1
05532  58  0.1026764E+00  -117    46   -48    18  -586   765 u=046  imp:n=1
05533  58  0.1026764E+00   -46   264   -48    18  -586   764 u=046  imp:n=1
05534  58  0.1026764E+00  -264   147   -48    18  -586   764 u=046  imp:n=1
05535  58  0.1026764E+00  -147   263   -48    18  -586   764 u=046  imp:n=1
05536  28  0.1187656E+00  -263   759   -48    18  -565   586 u=046  imp:n=1
05537  29  0.1183522E+00  -263   767   -48    18  -577   602 u=046  imp:n=1
05538  26  0.7164290E-01  -767   172   -48    18  -565   601 u=046  imp:n=1
05539  25  0.1201037E+00  -172   768   -48    18  -577   602 u=046  imp:n=1
05540  31  0.2714513E-01   -19   604   -48    18  -748   769 u=046  imp:n=1
05541   0                  -12     9   -14     4  -563   564 u=046 imp:n=1
05542   0                  -10    13   -14     4  -563   564 u=046 imp:n=1
05543   0                  -10     9    -7    14   -81   564 u=046 imp:n=1
05544   0                 -734    17   -21    18  -563   571 u=046 imp:n=1
05545   0                 -758   172   -25    48  -567   569 u=046 imp:n=1
05546   0                 -753   759   -25    48  -567   569 u=046 imp:n=1
05547   0                 -693   750   -21    48  -565   567 u=046 imp:n=1
05548   0                 -758   767   -48    26  -567   576 u=046 imp:n=1
05549   0                 -753   247   -48    26  -567   569 u=046 imp:n=1
05550   0                 -749   754   -25    48  -567   586 u=046 imp:n=1
05551   0                 -693   750   -25    48  -567   569 u=046 imp:n=1
05552   0                 -734    17   -25    18  -586   568 u=046 imp:n=1
05553   0                 -749   754   -21    48  -565   567 u=046 imp:n=1
05554   0                 -753   247   -48    18  -565   567 u=046 imp:n=1
05555   0                 -758   767   -48    18  -565   567 u=046 imp:n=1
05556   0                 -263   759   -48    18  -586   568 u=046 imp:n=1
05557   0                 -753   759   -21    48  -565   567 u=046 imp:n=1
05558   0                 -734    17   -25    18  -575   586 u=046 imp:n=1
05559   0                 -758   172   -21    48  -565   567 u=046 imp:n=1
05560   0                 -734    17   -21    18  -565   567 u=046 imp:n=1
05561   0                  -19   201   -21    18  -565   563 u=046 imp:n=1
05562   0                 -734    17   -21    18  -567   563 u=046 imp:n=1
05563   0                  -10    13   -14     4   -81   563 u=046 imp:n=1
05564   0                 -749   754   -25    18  -586   568 u=046 imp:n=1
05565   0                  -12     9   -14     4   -81   563 u=046 imp:n=1
05566   0                 -734    17   -21    18  -572   575 u=046 imp:n=1
05567   0                 -749   754   -25    18  -568   569 u=046 imp:n=1
05568   0                 -263   759   -48    18  -568   569 u=046 imp:n=1
05569   0                 -734    17   -25    18  -568   569 u=046 imp:n=1
05570   0                 -202    17   -48    18  -602   746 u=046 imp:n=1
05571   0                 -202    17   -48    18  -747   748 u=046 imp:n=1
05572   0                 -604    17   -48    18  -748   769 u=046 imp:n=1
05573   0                  -19    17   -14    18  -769   566 u=046 imp:n=1
05574   0                 -734    17   -21    18  -571   572 u=046 imp:n=1
05575   0                 -202    17   -48   251  -746   747 u=046 imp:n=1
05576   0                 -202    17  -252    18  -746   747 u=046 imp:n=1
05577   0                  -19   201   -48    18  -746   748 u=046 imp:n=1
05578   0                 -247   263   -48    18  -764   748 u=046 imp:n=1
05579   0                 -202    17  -251   252  -746   747 u=046 imp:n=1
05580   0                 -758   767   -48    18  -576   577 u=046 imp:n=1
05581   0                 -762   750   -48    18  -601   602 u=046 imp:n=1
05582   0                  -19   201   -21    18  -563   569 u=046 imp:n=1
05583   0                 -767   172   -48    18  -601   602 u=046 imp:n=1
05584   0                 -758   767   -26    18  -567   576 u=046 imp:n=1
05585   0                 -753   247   -26    18  -567   569 u=046 imp:n=1
05586   0                  -19   201   -48    18  -577   746 u=046 imp:n=1
05587   0                 -762   693   -48    18  -577   601 u=046 imp:n=1
05588   0                 -763   247   -48    18  -577   602 u=046 imp:n=1
05589   0                 -768    17   -48    18  -577   602 u=046 imp:n=1
05590   0                  -19    17   -14    48  -577   769 u=046 imp:n=1
05591   0                  -19   693   -48    18  -569   577 u=046 imp:n=1
05592   0                  -19   750   -21    48  -569   577 u=046 imp:n=1
05593   0                 -749   247   -48    18  -569   577 u=046 imp:n=1
05594   0                 -263   759   -48    18  -569   577 u=046 imp:n=1
05595   0                 -749   759   -21    48  -569   577 u=046 imp:n=1
05596   0                 -172    17   -48    18  -569   577 u=046 imp:n=1
05597   0                 -758    17   -21    48  -569   577 u=046 imp:n=1
05598   0                 -734    17   -21    25  -575   569 u=046 imp:n=1
05599   0                 -693   750   -21    25  -567   569 u=046 imp:n=1
05600   0                 -749   754   -21    25  -567   569 u=046 imp:n=1
05601   0                  -19    17   -14    21  -565   577 u=046 imp:n=1
05602   0                 -753   759   -21    25  -567   569 u=046 imp:n=1
05603   0                 -758   172   -21    25  -567   569 u=046 imp:n=1
05604   3  0.8540120E-01    -2     1    -4     3  -564     5 u=046  imp:n=1
05605   3  0.8540120E-01    -2     1    -8     7  -564     5 u=046  imp:n=1
05606   3  0.8540120E-01    -9     1    -7     4  -564     5 u=046  imp:n=1
```

```
05607   3  0.8540120E-01    -2    10    -7     4  -564     5 u=046  imp:n=1
05608  34  0.1035093E+00   -10   608   -83     4  -609   610 u=046  imp:n=1
05609   0                  -10     9    -7     4  -564   609 u=046 imp:n=1
05610   0                  -10     9    -7     4  -610     5 u=046 imp:n=1
05611   0                  -10     9    -7    83  -609   610 u=046 imp:n=1
05612   0                 -608     9   -83     4  -609   610 u=046 imp:n=1
05613   1  0.3030146E-01    -2     1    -4     3   -81   563 u=047  imp:n=1
05614   1  0.3030146E-01    -2     1    -8     7   -81   563 u=047  imp:n=1
05615   2  0.7570860E-01    -9     1    -7     4   -81   563 u=047  imp:n=1
05616   2  0.7570860E-01    -2    10    -7     4   -81   563 u=047  imp:n=1
05617   3  0.8540120E-01    -2     1    -4     3  -563   564 u=047  imp:n=1
05618   3  0.8540120E-01    -2     1    -8     7  -563   564 u=047  imp:n=1
05619   3  0.8540120E-01    -9     1    -7     4  -563   564 u=047  imp:n=1
05620   3  0.8540120E-01    -2    10    -7     4  -563   564 u=047  imp:n=1
05621   4  0.7332760E-01   -13    12   -14     4   -81   565 u=047  imp:n=1
05622   5  0.3966184E-01   -13    12   -14     4  -566   564 u=047  imp:n=1
05623   6  0.3747366E-01   -13    19   -14    18  -565   566 u=047  imp:n=1
05624   6  0.3747366E-01   -17    12   -14    18  -565   566 u=047  imp:n=1
05625   6  0.3747366E-01   -13    12   -18     4  -565   566 u=047  imp:n=1
05626  29  0.1183522E+00  -201   712   -48    18  -577   602 u=047  imp:n=1
05627  11  0.7961518E-01  -201   693   -21    18  -565   567 u=047  imp:n=1
05628  11  0.7961518E-01  -201   693   -21    18  -571   572 u=047  imp:n=1
05629  12  0.7714468E-01  -201   693   -21    25  -567   571 u=047  imp:n=1
05630  12  0.7714468E-01  -201   693   -26    18  -567   571 u=047  imp:n=1
05631  13  0.6712964E-01  -201   694   -25    26  -567   571 u=047  imp:n=1
05632  13  0.6712964E-01  -695   693   -25    26  -567   571 u=047  imp:n=1
05633  14  0.4579853E-01  -694   695   -25    26  -567   571 u=047  imp:n=1
05634  11  0.7961518E-01  -201   693   -21    18  -572   575 u=047  imp:n=1
05635  11  0.7961518E-01  -201   693   -21    18  -576   577 u=047  imp:n=1
05636  12  0.7714468E-01  -201   693   -21    25  -575   576 u=047  imp:n=1
05637  12  0.7714468E-01  -201   693   -26    18  -575   576 u=047  imp:n=1
05638  13  0.6712964E-01  -201   694   -25    26  -575   576 u=047  imp:n=1
05639  13  0.6712964E-01  -695   693   -25    26  -575   576 u=047  imp:n=1
05640  14  0.4579853E-01  -694   695   -25    26  -575   576 u=047  imp:n=1
05641  15  0.8003452E-01  -697   696   -21    18  -565   567 u=047  imp:n=1
05642  15  0.8003452E-01  -697   696   -21    18  -568   569 u=047  imp:n=1
05643  16  0.7744373E-01  -697   696   -21    25  -567   568 u=047  imp:n=1
05644  16  0.7744373E-01  -697   696   -26    18  -567   568 u=047  imp:n=1
05645  17  0.6733980E-01  -697   698   -25    26  -567   568 u=047  imp:n=1
05646  17  0.6733980E-01  -699   696   -25    26  -567   568 u=047  imp:n=1
05647  18  0.4487970E-01  -698   699   -25    26  -567   568 u=047  imp:n=1
05648  62  0.8630075E-01  -701   700   -48    18  -565   770 u=047  imp:n=1
05649  63  0.3112637E-01  -701   700   -48    18  -771   667 u=047  imp:n=1
05650  64  0.7416011E-01  -701   700   -48   251  -770   771 u=047  imp:n=1
05651  64  0.7416011E-01  -701   700  -252    18  -770   771 u=047  imp:n=1
05652  65  0.7056425E-01  -701   772  -251   252  -770   771 u=047  imp:n=1
05653  65  0.7056425E-01  -773   700  -251   252  -770   771 u=047  imp:n=1
05654   0                 -772   773  -251   252  -770   771 u=047 imp:n=1
05655  60  0.6601119E-01  -701   700  -342   341  -667   586 u=047  imp:n=1
05656  60  0.6601119E-01  -701   700   -48   344  -667   586 u=047  imp:n=1
05657  61  0.6601310E-01  -701   700  -344   342  -774   586 u=047  imp:n=1
05658  61  0.6601310E-01  -701   700  -344   342  -667   775 u=047  imp:n=1
05659   0                 -701   700  -344   342  -775   774 u=047 imp:n=1
05660  15  0.8003452E-01  -703   702   -21    18  -565   567 u=047  imp:n=1
05661  15  0.8003452E-01  -703   702   -21    18  -568   569 u=047  imp:n=1
05662  16  0.7744373E-01  -703   702   -21    25  -567   568 u=047  imp:n=1
05663  16  0.7744373E-01  -703   702   -26    18  -567   568 u=047  imp:n=1
05664  17  0.6733980E-01  -703   704   -25    26  -567   568 u=047  imp:n=1
05665  17  0.6733980E-01  -705   702   -25    26  -567   568 u=047  imp:n=1
05666  18  0.4487970E-01  -704   705   -25    26  -567   568 u=047  imp:n=1
05667   7  0.8235419E-01  -707   706   -21    18  -565   567 u=047  imp:n=1
05668   7  0.8235419E-01  -707   706   -21    18  -568   569 u=047  imp:n=1
05669   8  0.7986135E-01  -707   706   -21    25  -567   568 u=047  imp:n=1
05670   8  0.7986135E-01  -707   706   -26    18  -567   568 u=047  imp:n=1
05671   9  0.6943934E-01  -707   708   -25    26  -567   568 u=047  imp:n=1
05672   9  0.6943934E-01  -709   706   -25    26  -567   568 u=047  imp:n=1
05673  10  0.4603587E-01  -708   709   -25    26  -567   568 u=047  imp:n=1
05674  25  0.1201037E+00  -777   776   -48    18  -569   600 u=047  imp:n=1
05675  59  0.1256220E+00  -117   202   -48    18  -586   587 u=047  imp:n=1
05676  51  0.1119518E+00  -147   146   -48    18  -565   710 u=047  imp:n=1
05677  52  0.1112539E+00  -147   146   -48    18  -710   711 u=047  imp:n=1
05678  30  0.5464445E-01  -693   697   -48    18  -565   586 u=047  imp:n=1
05679  26  0.7164290E-01  -712   701   -48    18  -565   601 u=047  imp:n=1
05680  24  0.1232187E+00  -701   700   -48    18  -586   587 u=047  imp:n=1
05681  26  0.7164290E-01  -700   703   -48    18  -565   601 u=047  imp:n=1
05682  24  0.1232187E+00  -703   777   -48    18  -569   600 u=047  imp:n=1
```

```
05683  30  0.5464445E-01  -702   707   -48    18  -565   586 u=047  imp:n=1
05684  58  0.1026764E+00  -117    46   -48    18  -565   711 u=047  imp:n=1
05685  58  0.1026764E+00  -117   202   -48    18  -711   667 u=047  imp:n=1
05686  58  0.1026764E+00  -117   202   -48    18  -667   778 u=047  imp:n=1
05687  58  0.1026764E+00  -117   202   -48    18  -778   586 u=047  imp:n=1
05688  58  0.1026764E+00   -46   264   -48    18  -565   711 u=047  imp:n=1
05689  58  0.1026764E+00  -264   147   -48    18  -565   711 u=047  imp:n=1
05690  58  0.1026764E+00  -146   262   -48    18  -565   711 u=047  imp:n=1
05691  58  0.1026764E+00  -262   261   -48    18  -565   711 u=047  imp:n=1
05692  58  0.1026764E+00  -261   202   -48    18  -565   711 u=047  imp:n=1
05693  31  0.2714513E-01   -19   604   -48    18  -602   605 u=047  imp:n=1
05694  32  0.8823003E-01   -75    17   -48    18  -605   606 u=047  imp:n=1
05695  33  0.8829426E-01   -78    17   -48    18  -606   607 u=047  imp:n=1
05696  33  0.8829426E-01   -75    80   -48    18  -606   607 u=047  imp:n=1
05697   0                  -12     9   -14     4  -563   564 u=047 imp:n=1
05698   0                  -10    13   -14     4  -563   564 u=047 imp:n=1
05699   0                  -10     9    -7    14   -81   564 u=047 imp:n=1
05700   0                 -202    17  -251   252  -770   771 u=047 imp:n=1
05701   0                 -706   117  -251   252  -770   771 u=047 imp:n=1
05702   0                 -706   117   -48    18  -565   770 u=047 imp:n=1
05703   0                 -202    17   -48    18  -565   770 u=047 imp:n=1
05704   0                 -696   712   -48    18  -563   571 u=047 imp:n=1
05705   0                 -202    17  -252    26  -567   771 u=047 imp:n=1
05706   0                 -706   117  -252    26  -567   771 u=047 imp:n=1
05707   0                 -706   117  -252    18  -770   567 u=047 imp:n=1
05708   0                 -202    17  -252    18  -770   567 u=047 imp:n=1
05709   0                 -696   712   -48    18  -565   567 u=047 imp:n=1
05710   0                 -706    17   -21    48  -563   571 u=047 imp:n=1
05711   0                 -702   707   -21    48  -563   571 u=047 imp:n=1
05712   0                 -696   703   -21    48  -563   571 u=047 imp:n=1
05713   0                 -202    17   -48   251  -770   771 u=047 imp:n=1
05714   0                 -706   117   -48   251  -770   771 u=047 imp:n=1
05715   0                  -19   201   -21    18  -565   563 u=047 imp:n=1
05716   0                 -693   697   -21    48  -565   563 u=047 imp:n=1
05717   0                 -696   703   -21    48  -565   563 u=047 imp:n=1
05718   0                 -693   697   -21    48  -563   571 u=047 imp:n=1
05719   0                  -19   201   -21    18  -563   575 u=047 imp:n=1
05720   0                 -202    17   -26    18  -567   576 u=047 imp:n=1
05721   0                 -706   117   -26    18  -567   569 u=047 imp:n=1
05722   0                 -702   707   -21    48  -565   563 u=047 imp:n=1
05723   0                 -706    17   -21    48  -565   563 u=047 imp:n=1
05724   0                 -696   712   -48    18  -567   563 u=047 imp:n=1
05725   0                  -10    13   -14     4   -81   563 u=047 imp:n=1
05726   0                  -19    17   -14    21  -565   577 u=047 imp:n=1
05727   0                  -12     9   -14     4   -81   563 u=047 imp:n=1
05728   0                  -19   201   -48    18  -577   602 u=047 imp:n=1
05729   0                 -712   701   -48    18  -601   587 u=047 imp:n=1
05730   0                 -700   703   -48    18  -601   587 u=047 imp:n=1
05731   0                 -712   703   -48    18  -587   600 u=047 imp:n=1
05732   0                 -776    17   -48    18  -587   600 u=047 imp:n=1
05733   0                 -712    17   -48    18  -600   602 u=047 imp:n=1
05734   0                 -604    17   -48    18  -602   605 u=047 imp:n=1
05735   0                 -696   712   -48    26  -575   667 u=047 imp:n=1
05736   0                  -19    75   -48    18  -605   607 u=047 imp:n=1
05737   0                  -80    78   -48    18  -606   607 u=047 imp:n=1
05738   0                  -19    17   -14    48  -577   607 u=047 imp:n=1
05739   0                  -19    17   -14    18  -607   566 u=047 imp:n=1
05740   0                 -696   712   -48    26  -571   572 u=047 imp:n=1
05741   0                 -706    17   -25    48  -571   569 u=047 imp:n=1
05742   0                 -702   707   -25    48  -571   586 u=047 imp:n=1
05743   0                 -696   703   -25    48  -571   569 u=047 imp:n=1
05744   0                 -696   712   -48    26  -572   575 u=047 imp:n=1
05745   0                 -202    17   -48    18  -576   587 u=047 imp:n=1
05746   0                 -693   697   -21    25  -571   569 u=047 imp:n=1
05747   0                 -696   703   -21    25  -571   569 u=047 imp:n=1
05748   0                 -702   707   -21    25  -571   569 u=047 imp:n=1
05749   0                 -706    17   -21    25  -571   569 u=047 imp:n=1
05750   0                 -202    17   -48    26  -586   576 u=047 imp:n=1
05751   0                 -706   117   -48    26  -586   569 u=047 imp:n=1
05752   0                 -702   707   -25    26  -586   569 u=047 imp:n=1
05753   0                 -693   697   -26    18  -586   569 u=047 imp:n=1
05754   0                 -696   712   -48    26  -586   569 u=047 imp:n=1
05755   0                 -202    17  -341    26  -667   586 u=047 imp:n=1
05756   0                 -706   117  -341    26  -667   586 u=047 imp:n=1
05757   0                 -702   707   -26    18  -586   569 u=047 imp:n=1
05758   0                 -696   712   -26    18  -571   569 u=047 imp:n=1
```

```
05759   0                -701   700  -341    18  -667   586 u=047 imp:n=1
05760   0                -696   712  -342    26  -667   586 u=047 imp:n=1
05761   0                -202    17  -344   342  -667   586 u=047 imp:n=1
05762   0                -706   117  -344   342  -667   586 u=047 imp:n=1
05763   0                 -19   201   -21    18  -575   577 u=047 imp:n=1
05764   0                -693   712   -48    18  -569   577 u=047 imp:n=1
05765   0                -696   712   -48   342  -667   586 u=047 imp:n=1
05766   0                -776   117   -48    18  -569   587 u=047 imp:n=1
05767   0                -693    17   -21    48  -569   577 u=047 imp:n=1
05768   0                -693   697   -25    48  -571   586 u=047 imp:n=1
05769   0                -693   697   -25    26  -586   569 u=047 imp:n=1
05770   0                -706   117   -48    26  -771   667 u=047 imp:n=1
05771   0                -202    17   -48    26  -771   667 u=047 imp:n=1
05772   0                -706   117  -342   341  -667   586 u=047 imp:n=1
05773   0                -202    17  -342   341  -667   586 u=047 imp:n=1
05774   0                -706   117   -48   344  -667   586 u=047 imp:n=1
05775   0                -202    17   -48   344  -667   586 u=047 imp:n=1
05776   3  0.8540120E-01   -2     1    -4     3  -564     5 u=047  imp:n=1
05777   3  0.8540120E-01   -2     1    -8     7  -564     5 u=047  imp:n=1
05778   3  0.8540120E-01   -9     1    -7     4  -564     5 u=047  imp:n=1
05779   3  0.8540120E-01   -2    10    -7     4  -564     5 u=047  imp:n=1
05780  34  0.1035093E+00  -10   608   -83     4  -609   610 u=047  imp:n=1
05781   0                 -10     9    -7     4  -564   609 u=047 imp:n=1
05782   0                 -10     9    -7     4  -610     5 u=047 imp:n=1
05783   0                 -10     9    -7    83  -609   610 u=047 imp:n=1
05784   0                -608     9   -83     4  -609   610 u=047 imp:n=1
05785   1  0.3030146E-01   -2     1    -4     3   -81   563 u=048  imp:n=1
05786   1  0.3030146E-01   -2     1    -8     7   -81   563 u=048  imp:n=1
05787   2  0.7570860E-01   -9     1    -7     4   -81   563 u=048  imp:n=1
05788   2  0.7570860E-01   -2    10    -7     4   -81   563 u=048  imp:n=1
05789   3  0.8540120E-01   -2     1    -4     3  -563   564 u=048  imp:n=1
05790   3  0.8540120E-01   -2     1    -8     7  -563   564 u=048  imp:n=1
05791   3  0.8540120E-01   -9     1    -7     4  -563   564 u=048  imp:n=1
05792   3  0.8540120E-01   -2    10    -7     4  -563   564 u=048  imp:n=1
05793   4  0.7332760E-01  -13    12   -14     4   -81   565 u=048  imp:n=1
05794   5  0.3966184E-01  -13    12   -14     4  -566   564 u=048  imp:n=1
05795   6  0.3747366E-01  -13    19   -14    18  -565   566 u=048  imp:n=1
05796   6  0.3747366E-01  -17    12   -14    18  -565   566 u=048  imp:n=1
05797   6  0.3747366E-01  -13    12   -18     4  -565   566 u=048  imp:n=1
05798  11  0.7961518E-01 -121   611   -21    18  -779   780 u=048  imp:n=1
05799  11  0.7961518E-01 -121   611   -21    18  -781   782 u=048  imp:n=1
05800  12  0.7714468E-01 -121   611   -21    25  -780   781 u=048  imp:n=1
05801  12  0.7714468E-01 -121   611   -26    18  -780   781 u=048  imp:n=1
05802  13  0.6712964E-01 -121   612   -25    26  -780   781 u=048  imp:n=1
05803  13  0.6712964E-01 -613   611   -25    26  -780   781 u=048  imp:n=1
05804  14  0.4579853E-01 -612   613   -25    26  -780   781 u=048  imp:n=1
05805  11  0.7961518E-01 -121   611   -21    18  -782   783 u=048  imp:n=1
05806  11  0.7961518E-01 -121   611   -21    18  -784   785 u=048  imp:n=1
05807  12  0.7714468E-01 -121   611   -21    25  -783   784 u=048  imp:n=1
05808  12  0.7714468E-01 -121   611   -26    18  -783   784 u=048  imp:n=1
05809  13  0.6712964E-01 -121   612   -25    26  -783   784 u=048  imp:n=1
05810  13  0.6712964E-01 -613   611   -25    26  -783   784 u=048  imp:n=1
05811  14  0.4579853E-01 -612   613   -25    26  -783   784 u=048  imp:n=1
05812  15  0.8003452E-01 -615   614   -21    18  -779   780 u=048  imp:n=1
05813  15  0.8003452E-01 -615   614   -21    18  -786   787 u=048  imp:n=1
05814  16  0.7744373E-01 -615   614   -21    25  -780   786 u=048  imp:n=1
05815  16  0.7744373E-01 -615   614   -26    18  -780   786 u=048  imp:n=1
05816  17  0.6733980E-01 -615   616   -25    26  -780   786 u=048  imp:n=1
05817  17  0.6733980E-01 -617   614   -25    26  -780   786 u=048  imp:n=1
05818  18  0.4487970E-01 -616   617   -25    26  -780   786 u=048  imp:n=1
05819  15  0.8003452E-01 -118   618   -21    18  -779   780 u=048  imp:n=1
05820  15  0.8003452E-01 -118   618   -21    18  -786   787 u=048  imp:n=1
05821  16  0.7744373E-01 -118   618   -21    25  -780   786 u=048  imp:n=1
05822  16  0.7744373E-01 -118   618   -26    18  -780   786 u=048  imp:n=1
05823  17  0.6733980E-01 -118   619   -25    26  -780   786 u=048  imp:n=1
05824  17  0.6733980E-01 -620   618   -25    26  -780   786 u=048  imp:n=1
05825  18  0.4487970E-01 -619   620   -25    26  -780   786 u=048  imp:n=1
05826  15  0.8003452E-01 -622   621   -21    18  -565   567 u=048  imp:n=1
05827  15  0.8003452E-01 -622   621   -21    18  -568   569 u=048  imp:n=1
05828  16  0.7744373E-01 -622   621   -21    25  -567   568 u=048  imp:n=1
05829  16  0.7744373E-01 -622   621   -26    18  -567   568 u=048  imp:n=1
05830  17  0.6733980E-01 -622   623   -25    26  -567   568 u=048  imp:n=1
05831  17  0.6733980E-01 -624   621   -25    26  -567   568 u=048  imp:n=1
05832  18  0.4487970E-01 -623   624   -25    26  -567   568 u=048  imp:n=1
05833  15  0.8003452E-01 -626   625   -21    18  -565   567 u=048  imp:n=1
05834  15  0.8003452E-01 -626   625   -21    18  -568   569 u=048  imp:n=1
```

```
05835  16  0.7744373E-01  -626   625   -21    25  -567   568 u=048  imp:n=1
05836  16  0.7744373E-01  -626   625   -26    18  -567   568 u=048  imp:n=1
05837  17  0.6733980E-01  -626   627   -25    26  -567   568 u=048  imp:n=1
05838  17  0.6733980E-01  -628   625   -25    26  -567   568 u=048  imp:n=1
05839  18  0.4487970E-01  -627   628   -25    26  -567   568 u=048  imp:n=1
05840  15  0.8003452E-01  -114   629   -21    18  -565   567 u=048  imp:n=1
05841  15  0.8003452E-01  -114   629   -21    18  -568   569 u=048  imp:n=1
05842  16  0.7744373E-01  -114   629   -21    25  -567   568 u=048  imp:n=1
05843  16  0.7744373E-01  -114   629   -26    18  -567   568 u=048  imp:n=1
05844  17  0.6733980E-01  -114   630   -25    26  -567   568 u=048  imp:n=1
05845  17  0.6733980E-01  -631   629   -25    26  -567   568 u=048  imp:n=1
05846  18  0.4487970E-01  -630   631   -25    26  -567   568 u=048  imp:n=1
05847  11  0.7961518E-01  -633   632   -21    18  -565   567 u=048  imp:n=1
05848  11  0.7961518E-01  -633   632   -21    18  -571   572 u=048  imp:n=1
05849  12  0.7714468E-01  -633   632   -21    25  -567   571 u=048  imp:n=1
05850  12  0.7714468E-01  -633   632   -26    18  -567   571 u=048  imp:n=1
05851  13  0.6712964E-01  -633   634   -25    26  -567   571 u=048  imp:n=1
05852  13  0.6712964E-01  -635   632   -25    26  -567   571 u=048  imp:n=1
05853  14  0.4579853E-01  -634   635   -25    26  -567   571 u=048  imp:n=1
05854  11  0.7961518E-01  -633   632   -21    18  -572   575 u=048  imp:n=1
05855  11  0.7961518E-01  -633   632   -21    18  -576   577 u=048  imp:n=1
05856  12  0.7714468E-01  -633   632   -21    25  -575   576 u=048  imp:n=1
05857  12  0.7714468E-01  -633   632   -26    18  -575   576 u=048  imp:n=1
05858  13  0.6712964E-01  -633   634   -25    26  -575   576 u=048  imp:n=1
05859  13  0.6712964E-01  -635   632   -25    26  -575   576 u=048  imp:n=1
05860  14  0.4579853E-01  -634   635   -25    26  -575   576 u=048  imp:n=1
05861  29  0.1183522E+00  -121   106   -48    18  -785   788 u=048  imp:n=1
05862  30  0.5464445E-01  -611   615   -48    18  -779   789 u=048  imp:n=1
05863  26  0.7164290E-01  -106   120   -48    18  -779   790 u=048  imp:n=1
05864  23  0.1232400E+00  -120   119   -48    18  -779   789 u=048  imp:n=1
05865  24  0.1232187E+00  -120   119   -48    18  -789   791 u=048  imp:n=1
05866  26  0.7164290E-01  -119   118   -48    18  -779   790 u=048  imp:n=1
05867  29  0.1183522E+00  -118   117   -48    18  -787   792 u=048  imp:n=1
05868  30  0.5464445E-01  -618   622   -48    18  -565   586 u=048  imp:n=1
05869  29  0.1183522E+00  -117    94   -48    18  -569   600 u=048  imp:n=1
05870  30  0.5464445E-01  -621   626   -48    18  -565   586 u=048  imp:n=1
05871  26  0.7164290E-01   -94   116   -48    18  -565   601 u=048  imp:n=1
05872  23  0.1232400E+00  -116   115   -48    18  -565   586 u=048  imp:n=1
05873  24  0.1232187E+00  -116   115   -48    18  -586   587 u=048  imp:n=1
05874  26  0.7164290E-01  -115   114   -48    18  -565   601 u=048  imp:n=1
05875  29  0.1183522E+00  -114    86   -48    18  -577   602 u=048  imp:n=1
05876  30  0.5464445E-01  -629   633   -48    18  -565   586 u=048  imp:n=1
05877  31  0.2714513E-01   -19   604   -48    18  -788   793 u=048  imp:n=1
05878  32  0.8823003E-01   -75    17   -48    18  -793   794 u=048  imp:n=1
05879  33  0.8829426E-01   -78    17   -48    18  -794   795 u=048  imp:n=1
05880  33  0.8829426E-01   -75    80   -48    18  -794   795 u=048  imp:n=1
05881   0                  -12     9   -14     4  -563   564 u=048 imp:n=1
05882   0                  -10    13   -14     4  -563   564 u=048 imp:n=1
05883   0                  -10     9    -7    14   -81   564 u=048 imp:n=1
05884   0                 -632    17   -25    26  -567   577 u=048 imp:n=1
05885   0                 -629   633   -25    48  -567   586 u=048 imp:n=1
05886   0                 -618   622   -21    48  -779   780 u=048 imp:n=1
05887   0                 -621   626   -21    48  -779   780 u=048 imp:n=1
05888   0                 -625    94   -48    18  -779   780 u=048 imp:n=1
05889   0                 -625   114   -21    48  -779   780 u=048 imp:n=1
05890   0                  -19   121   -21    18  -779   563 u=048 imp:n=1
05891   0                 -611   615   -21    48  -779   563 u=048 imp:n=1
05892   0                 -625   114   -21    48  -563   781 u=048 imp:n=1
05893   0                 -625    94   -48    18  -563   781 u=048 imp:n=1
05894   0                 -621   626   -21    48  -563   781 u=048 imp:n=1
05895   0                 -618   622   -21    48  -563   781 u=048 imp:n=1
05896   0                 -614   118   -21    48  -563   781 u=048 imp:n=1
05897   0                 -614   106   -48    18  -563   781 u=048 imp:n=1
05898   0                 -611   615   -21    48  -563   781 u=048 imp:n=1
05899   0                  -19   121   -21    18  -563   783 u=048 imp:n=1
05900   0                 -632    17   -26    18  -567   577 u=048 imp:n=1
05901   0                 -614   106   -48    18  -779   563 u=048 imp:n=1
05902   0                 -614   118   -21    48  -779   563 u=048 imp:n=1
05903   0                 -618   622   -21    48  -780   563 u=048 imp:n=1
05904   0                 -621   626   -21    48  -780   563 u=048 imp:n=1
05905   0                 -625    94   -48    18  -780   563 u=048 imp:n=1
05906   0                 -625   114   -21    48  -780   563 u=048 imp:n=1
05907   0                  -19    17   -14    21  -565   785 u=048 imp:n=1
05908   0                 -632    17   -21    25  -567   577 u=048 imp:n=1
05909   0                 -629   633   -21    25  -567   569 u=048 imp:n=1
05910   0                 -629   633   -21    48  -565   567 u=048 imp:n=1
```

```
05911   0                -632    17   -21    18  -565   567 u=048 imp:n=1
05912   0                 -19   618   -48    18  -565   779 u=048 imp:n=1
05913   0                 -19   622   -21    48  -565   779 u=048 imp:n=1
05914   0                -621   626   -21    48  -565   779 u=048 imp:n=1
05915   0                -625    94   -48    18  -565   779 u=048 imp:n=1
05916   0                -625   114   -21    48  -565   779 u=048 imp:n=1
05917   0                 -10    13   -14     4   -81   563 u=048 imp:n=1
05918   0                 -12     9   -14     4   -81   563 u=048 imp:n=1
05919   0                 -19   121   -48    18  -785   788 u=048 imp:n=1
05920   0                -106   120   -48    18  -790   791 u=048 imp:n=1
05921   0                -119   118   -48    18  -790   791 u=048 imp:n=1
05922   0                -629   633   -25    26  -586   569 u=048 imp:n=1
05923   0                 -94   116   -48    18  -601   587 u=048 imp:n=1
05924   0                -625   114   -25    48  -781   569 u=048 imp:n=1
05925   0                -625    94   -48    26  -781   569 u=048 imp:n=1
05926   0                -621   626   -25    26  -586   569 u=048 imp:n=1
05927   0                -621   626   -25    48  -781   586 u=048 imp:n=1
05928   0                -618   622   -25    26  -586   569 u=048 imp:n=1
05929   0                -618   622   -25    48  -781   586 u=048 imp:n=1
05930   0                -115   114   -48    18  -601   587 u=048 imp:n=1
05931   0                -618   633   -25    48  -569   577 u=048 imp:n=1
05932   0                -114   633   -48    26  -569   577 u=048 imp:n=1
05933   0                -618   117   -48    26  -569   787 u=048 imp:n=1
05934   0                -618    17   -25    48  -577   787 u=048 imp:n=1
05935   0                 -86    17   -48    26  -577   784 u=048 imp:n=1
05936   0                 -94   114   -48    18  -587   600 u=048 imp:n=1
05937   0                -117   114   -48    18  -600   602 u=048 imp:n=1
05938   0                 -86    17   -48    18  -784   602 u=048 imp:n=1
05939   0                -106   118   -48    18  -791   792 u=048 imp:n=1
05940   0                -117    17   -48    18  -602   792 u=048 imp:n=1
05941   0                -106    17   -48    18  -792   788 u=048 imp:n=1
05942   0                -604    17   -48    18  -788   793 u=048 imp:n=1
05943   0                 -19    75   -48    18  -793   795 u=048 imp:n=1
05944   0                 -80    78   -48    18  -794   795 u=048 imp:n=1
05945   0                 -19    17   -14    48  -785   795 u=048 imp:n=1
05946   0                 -19    17   -14    18  -795   566 u=048 imp:n=1
05947   0                -614   118   -25    48  -781   787 u=048 imp:n=1
05948   0                -614   106   -48    26  -781   787 u=048 imp:n=1
05949   0                -611   615   -25    26  -789   787 u=048 imp:n=1
05950   0                -611   615   -25    48  -781   789 u=048 imp:n=1
05951   0                -611    17   -21    48  -787   785 u=048 imp:n=1
05952   0                -611   615   -21    25  -781   787 u=048 imp:n=1
05953   0                -611   106   -48    18  -787   785 u=048 imp:n=1
05954   0                -614   118   -21    25  -781   787 u=048 imp:n=1
05955   0                -618    17   -21    25  -577   787 u=048 imp:n=1
05956   0                -618   633   -21    25  -569   577 u=048 imp:n=1
05957   0                -618   622   -21    25  -781   569 u=048 imp:n=1
05958   0                -621   626   -21    25  -781   569 u=048 imp:n=1
05959   0                -625   114   -21    25  -781   569 u=048 imp:n=1
05960   0                 -19   121   -21    18  -783   785 u=048 imp:n=1
05961   0                -611   615   -26    18  -789   787 u=048 imp:n=1
05962   0                -629   633   -26    18  -586   569 u=048 imp:n=1
05963   0                -625    94   -26    18  -781   569 u=048 imp:n=1
05964   0                -621   626   -26    18  -586   569 u=048 imp:n=1
05965   0                -618   622   -26    18  -586   569 u=048 imp:n=1
05966   0                -614   106   -26    18  -781   787 u=048 imp:n=1
05967   0                -114   633   -26    18  -569   577 u=048 imp:n=1
05968   0                -618   117   -26    18  -569   787 u=048 imp:n=1
05969   0                 -86    17   -26    18  -577   784 u=048 imp:n=1
05970   3  0.8540120E-01   -2     1    -4     3  -564     5 u=048  imp:n=1
05971   3  0.8540120E-01   -2     1    -8     7  -564     5 u=048  imp:n=1
05972   3  0.8540120E-01   -9     1    -7     4  -564     5 u=048  imp:n=1
05973   3  0.8540120E-01   -2    10    -7     4  -564     5 u=048  imp:n=1
05974  34  0.1035093E+00  -10   608   -83     4  -609   610 u=048  imp:n=1
05975   0                 -10     9    -7     4  -564   609 u=048 imp:n=1
05976   0                 -10     9    -7     4  -610     5 u=048 imp:n=1
05977   0                 -10     9    -7    83  -609   610 u=048 imp:n=1
05978   0                -608     9   -83     4  -609   610 u=048 imp:n=1
05979   1  0.3030146E-01   -2     1    -4     3   -81   563 u=049  imp:n=1
05980   1  0.3030146E-01   -2     1    -8     7   -81   563 u=049  imp:n=1
05981   2  0.7570860E-01   -9     1    -7     4   -81   563 u=049  imp:n=1
05982   2  0.7570860E-01   -2    10    -7     4   -81   563 u=049  imp:n=1
05983   3  0.8540120E-01   -2     1    -4     3  -563   564 u=049  imp:n=1
05984   3  0.8540120E-01   -2     1    -8     7  -563   564 u=049  imp:n=1
05985   3  0.8540120E-01   -9     1    -7     4  -563   564 u=049  imp:n=1
05986   3  0.8540120E-01   -2    10    -7     4  -563   564 u=049  imp:n=1
```

```
05987   4  0.7332760E-01   -13    12   -14     4   -81   565 u=049  imp:n=1
05988   5  0.3966184E-01   -13    12   -14     4  -566   564 u=049  imp:n=1
05989   6  0.3747366E-01   -13    19   -14    18  -565   566 u=049  imp:n=1
05990   6  0.3747366E-01   -17    12   -14    18  -565   566 u=049  imp:n=1
05991   6  0.3747366E-01   -13    12   -18     4  -565   566 u=049  imp:n=1
05992  66  0.1220593E+00   -19   604   -48    18  -586   587 u=049  imp:n=1
05993  67  0.1389863E+00  -796   604   -48    18  -565   692 u=049  imp:n=1
05994  68  0.1389384E+00  -796   604   -48    18  -692   586 u=049  imp:n=1
05995  67  0.1389863E+00   -19   796   -48    18  -565   692 u=049  imp:n=1
05996  68  0.1389384E+00   -19   796   -48    18  -692   586 u=049  imp:n=1
05997  31  0.2714513E-01   -19   604   -48    18  -587   797 u=049  imp:n=1
05998  32  0.8823003E-01   -75    17   -48    18  -797   798 u=049  imp:n=1
05999  33  0.8829426E-01   -78    17   -48    18  -798   799 u=049  imp:n=1
06000  33  0.8829426E-01   -75    80   -48    18  -798   799 u=049  imp:n=1
06001   0                  -12     9   -14     4  -563   564 u=049 imp:n=1
06002   0                  -10    13   -14     4  -563   564 u=049 imp:n=1
06003   0                  -10     9    -7    14   -81   564 u=049 imp:n=1
06004   0                  -19    17   -14    48  -565   799 u=049 imp:n=1
06005   0                 -604    17   -48    18  -565   797 u=049 imp:n=1
06006   0                  -10    13   -14     4   -81   563 u=049 imp:n=1
06007   0                  -12     9   -14     4   -81   563 u=049 imp:n=1
06008   0                  -19    17   -14    18  -799   566 u=049 imp:n=1
06009   0                  -80    78   -48    18  -798   799 u=049 imp:n=1
06010   0                  -19    75   -48    18  -797   799 u=049 imp:n=1
06011   3  0.8540120E-01    -2     1    -4     3  -564     5 u=049  imp:n=1
06012   3  0.8540120E-01    -2     1    -8     7  -564     5 u=049  imp:n=1
06013   3  0.8540120E-01    -9     1    -7     4  -564     5 u=049  imp:n=1
06014   3  0.8540120E-01    -2    10    -7     4  -564     5 u=049  imp:n=1
06015  34  0.1035093E+00   -10   608   -83     4  -609   610 u=049  imp:n=1
06016   0                  -10     9    -7     4  -564   609 u=049 imp:n=1
06017   0                  -10     9    -7     4  -610     5 u=049 imp:n=1
06018   0                  -10     9    -7    83  -609   610 u=049 imp:n=1
06019   0                 -608     9   -83     4  -609   610 u=049 imp:n=1
06020   1  0.3030146E-01    -2     1    -4     3   -81   563 u=050  imp:n=1
06021   1  0.3030146E-01    -2     1    -8     7   -81   563 u=050  imp:n=1
06022   2  0.7570860E-01    -9     1    -7     4   -81   563 u=050  imp:n=1
06023   2  0.7570860E-01    -2    10    -7     4   -81   563 u=050  imp:n=1
06024   3  0.8540120E-01    -2     1    -4     3  -563   564 u=050  imp:n=1
06025   3  0.8540120E-01    -2     1    -8     7  -563   564 u=050  imp:n=1
06026   3  0.8540120E-01    -9     1    -7     4  -563   564 u=050  imp:n=1
06027   3  0.8540120E-01    -2    10    -7     4  -563   564 u=050  imp:n=1
06028   4  0.7332760E-01   -13    12   -14     4   -81   565 u=050  imp:n=1
06029   5  0.3966184E-01   -13    12   -14     4  -566   564 u=050  imp:n=1
06030   6  0.3747366E-01   -13    19   -14    18  -565   566 u=050  imp:n=1
06031   6  0.3747366E-01   -17    12   -14    18  -565   566 u=050  imp:n=1
06032   6  0.3747366E-01   -13    12   -18     4  -565   566 u=050  imp:n=1
06033  67  0.1389863E+00  -796   604   -48    18  -565   692 u=050  imp:n=1
06034  68  0.1389384E+00  -796   604   -48    18  -692   586 u=050  imp:n=1
06035  36  0.6435380E-01   -19   599   -48    18  -565   667 u=050  imp:n=1
06036  37  0.6435380E-01   -19   599   -48    18  -667   586 u=050  imp:n=1
06037  69  0.8126189E-01   -19   599   -48    18  -586   765 u=050  imp:n=1
06038  35  0.8186756E-01   -19   599   -48    18  -765   669 u=050  imp:n=1
06039  40  0.5178530E-01  -800   796   -48    18  -670   669 u=050  imp:n=1
06040  39  0.1185481E+00  -801   800   -48    18  -565   587 u=050  imp:n=1
06041  59  0.1256220E+00  -796   604   -48    18  -586   587 u=050  imp:n=1
06042  41  0.5279270E-01  -599   801   -48    18  -565   668 u=050  imp:n=1
06043  42  0.5392130E-01  -599   801   -48    18  -668   669 u=050  imp:n=1
06044  41  0.5279270E-01  -800   796   -48    18  -565   668 u=050  imp:n=1
06045  42  0.5392130E-01  -800   796   -48    18  -668   670 u=050  imp:n=1
06046  31  0.2714513E-01   -19   604   -48    18  -669   672 u=050  imp:n=1
06047  32  0.8823003E-01   -75    17   -48    18  -672   673 u=050  imp:n=1
06048  33  0.8829426E-01   -78    17   -48    18  -673   674 u=050  imp:n=1
06049  33  0.8829426E-01   -75    80   -48    18  -673   674 u=050  imp:n=1
06050   0                  -12     9   -14     4  -563   564 u=050 imp:n=1
06051   0                  -10    13   -14     4  -563   564 u=050 imp:n=1
06052   0                  -10     9    -7    14   -81   564 u=050 imp:n=1
06053   0                  -19    17   -14    18  -674   566 u=050 imp:n=1
06054   0                  -19    17   -14    48  -565   674 u=050 imp:n=1
06055   0                  -80    78   -48    18  -673   674 u=050 imp:n=1
06056   0                  -19    75   -48    18  -672   674 u=050 imp:n=1
06057   0                  -10    13   -14     4   -81   563 u=050 imp:n=1
06058   0                  -12     9   -14     4   -81   563 u=050 imp:n=1
06059   0                 -604    17   -48    18  -669   672 u=050 imp:n=1
06060   0                 -801   800   -48    18  -587   669 u=050 imp:n=1
06061   0                 -604    17   -48    18  -565   587 u=050 imp:n=1
06062   0                 -796    17   -48    18  -587   669 u=050 imp:n=1
```

```
06063   3  0.8540120E-01    -2     1    -4     3  -564     5 u=050  imp:n=1
06064   3  0.8540120E-01    -2     1    -8     7  -564     5 u=050  imp:n=1
06065   3  0.8540120E-01    -9     1    -7     4  -564     5 u=050  imp:n=1
06066   3  0.8540120E-01    -2    10    -7     4  -564     5 u=050  imp:n=1
06067  34  0.1035093E+00   -10   608   -83     4  -609   610 u=050  imp:n=1
06068   0                  -10     9    -7     4  -564   609 u=050 imp:n=1
06069   0                  -10     9    -7     4  -610     5 u=050 imp:n=1
06070   0                  -10     9    -7    83  -609   610 u=050 imp:n=1
06071   0                 -608     9   -83     4  -609   610 u=050 imp:n=1
06072   1  0.3030146E-01    -2     1    -4     3   -81   563 u=051  imp:n=1
06073   1  0.3030146E-01    -2     1    -8     7   -81   563 u=051  imp:n=1
06074   2  0.7570860E-01    -9     1    -7     4   -81   563 u=051  imp:n=1
06075   2  0.7570860E-01    -2    10    -7     4   -81   563 u=051  imp:n=1
06076   3  0.8540120E-01    -2     1    -4     3  -563   564 u=051  imp:n=1
06077   3  0.8540120E-01    -2     1    -8     7  -563   564 u=051  imp:n=1
06078   3  0.8540120E-01    -9     1    -7     4  -563   564 u=051  imp:n=1
06079   3  0.8540120E-01    -2    10    -7     4  -563   564 u=051  imp:n=1
06080   4  0.7332760E-01   -13    12   -14     4   -81   565 u=051  imp:n=1
06081   5  0.3966184E-01   -13    12   -14     4  -566   564 u=051  imp:n=1
06082   6  0.3747366E-01   -13    19   -14    18  -565   566 u=051  imp:n=1
06083   6  0.3747366E-01   -17    12   -14    18  -565   566 u=051  imp:n=1
06084   6  0.3747366E-01   -13    12   -18     4  -565   566 u=051  imp:n=1
06085  67  0.1389863E+00   -19   796   -48    18  -565   692 u=051  imp:n=1
06086  68  0.1389384E+00   -19   796   -48    18  -692   586 u=051  imp:n=1
06087  36  0.6435380E-01  -802   604   -48    18  -565   667 u=051  imp:n=1
06088  37  0.6435380E-01  -802   604   -48    18  -667   586 u=051  imp:n=1
06089  69  0.8126189E-01  -802   604   -48    18  -586   765 u=051  imp:n=1
06090  35  0.8186756E-01  -802   604   -48    18  -765   669 u=051  imp:n=1
06091  40  0.5178530E-01  -796   803   -48    18  -670   669 u=051  imp:n=1
06092  39  0.1185481E+00  -803   804   -48    18  -565   587 u=051  imp:n=1
06093  59  0.1256220E+00   -19   796   -48    18  -586   587 u=051  imp:n=1
06094  41  0.5279270E-01  -804   802   -48    18  -565   668 u=051  imp:n=1
06095  42  0.5392130E-01  -804   802   -48    18  -668   669 u=051  imp:n=1
06096  41  0.5279270E-01  -796   803   -48    18  -565   668 u=051  imp:n=1
06097  42  0.5392130E-01  -796   803   -48    18  -668   670 u=051  imp:n=1
06098  31  0.2714513E-01   -19   604   -48    18  -669   672 u=051  imp:n=1
06099  32  0.8823003E-01   -75    17   -48    18  -672   673 u=051  imp:n=1
06100  33  0.8829426E-01   -78    17   -48    18  -673   674 u=051  imp:n=1
06101  33  0.8829426E-01   -75    80   -48    18  -673   674 u=051  imp:n=1
06102   0                  -12     9   -14     4  -563   564 u=051 imp:n=1
06103   0                  -10    13   -14     4  -563   564 u=051 imp:n=1
06104   0                  -10     9    -7    14   -81   564 u=051 imp:n=1
06105   0                  -19    17   -14    18  -674   566 u=051 imp:n=1
06106   0                  -19    17   -14    48  -565   674 u=051 imp:n=1
06107   0                  -80    78   -48    18  -673   674 u=051 imp:n=1
06108   0                  -19    75   -48    18  -672   674 u=051 imp:n=1
06109   0                  -10    13   -14     4   -81   563 u=051 imp:n=1
06110   0                  -12     9   -14     4   -81   563 u=051 imp:n=1
06111   0                 -604    17   -48    18  -565   672 u=051 imp:n=1
06112   0                  -19   796   -48    18  -587   669 u=051 imp:n=1
06113   0                 -803   804   -48    18  -587   669 u=051 imp:n=1
06114   3  0.8540120E-01    -2     1    -4     3  -564     5 u=051  imp:n=1
06115   3  0.8540120E-01    -2     1    -8     7  -564     5 u=051  imp:n=1
06116   3  0.8540120E-01    -9     1    -7     4  -564     5 u=051  imp:n=1
06117   3  0.8540120E-01    -2    10    -7     4  -564     5 u=051  imp:n=1
06118  34  0.1035093E+00   -10   608   -83     4  -609   610 u=051  imp:n=1
06119   0                  -10     9    -7     4  -564   609 u=051 imp:n=1
06120   0                  -10     9    -7     4  -610     5 u=051 imp:n=1
06121   0                  -10     9    -7    83  -609   610 u=051 imp:n=1
06122   0                 -608     9   -83     4  -609   610 u=051 imp:n=1
06123   1  0.3030146E-01    -2     1    -4     3   -81   563 u=052  imp:n=1
06124   1  0.3030146E-01    -2     1    -8     7   -81   563 u=052  imp:n=1
06125   2  0.7570860E-01    -9     1    -7     4   -81   563 u=052  imp:n=1
06126   2  0.7570860E-01    -2    10    -7     4   -81   563 u=052  imp:n=1
06127   3  0.8540120E-01    -2     1    -4     3  -563   564 u=052  imp:n=1
06128   3  0.8540120E-01    -2     1    -8     7  -563   564 u=052  imp:n=1
06129   3  0.8540120E-01    -9     1    -7     4  -563   564 u=052  imp:n=1
06130   3  0.8540120E-01    -2    10    -7     4  -563   564 u=052  imp:n=1
06131   4  0.7332760E-01   -13    12   -14     4   -81   565 u=052  imp:n=1
06132   5  0.3966184E-01   -13    12   -14     4  -566   564 u=052  imp:n=1
06133   6  0.3747366E-01   -13    19   -14    18  -565   566 u=052  imp:n=1
06134   6  0.3747366E-01   -17    12   -14    18  -565   566 u=052  imp:n=1
06135   6  0.3747366E-01   -13    12   -18     4  -565   566 u=052  imp:n=1
06136  67  0.1389863E+00   -19   604   -48   341  -565   692 u=052  imp:n=1
06137  68  0.1389384E+00   -19   604   -48   341  -692   586 u=052  imp:n=1
06138  36  0.6435380E-01   -19   604  -218    18  -565   667 u=052  imp:n=1
```

```
06139  37  0.6435380E-01   -19   604  -218    18  -667   586 u=052  imp:n=1
06140  69  0.8126189E-01   -19   604  -218    18  -586   765 u=052  imp:n=1
06141  35  0.8186756E-01   -19   604  -218    18  -765   669 u=052  imp:n=1
06142  40  0.5178530E-01   -19   604  -341   384  -670   669 u=052  imp:n=1
06143  39  0.1185481E+00   -19   604  -384   211  -565   587 u=052  imp:n=1
06144  59  0.1256220E+00   -19   604   -48   341  -586   587 u=052  imp:n=1
06145  41  0.5279270E-01   -19   604  -211   218  -565   668 u=052  imp:n=1
06146  42  0.5392130E-01   -19   604  -211   218  -668   669 u=052  imp:n=1
06147  41  0.5279270E-01   -19   604  -341   384  -565   668 u=052  imp:n=1
06148  42  0.5392130E-01   -19   604  -341   384  -668   670 u=052  imp:n=1
06149  31  0.2714513E-01   -19   604   -48    18  -669   672 u=052  imp:n=1
06150  32  0.8823003E-01   -75    17   -48    18  -672   673 u=052  imp:n=1
06151  33  0.8829426E-01   -78    17   -48    18  -673   674 u=052  imp:n=1
06152  33  0.8829426E-01   -75    80   -48    18  -673   674 u=052  imp:n=1
06153   0                  -12     9   -14     4  -563   564 u=052 imp:n=1
06154   0                  -10    13   -14     4  -563   564 u=052 imp:n=1
06155   0                  -10     9    -7    14   -81   564 u=052 imp:n=1
06156   0                  -19    17   -14    18  -674   566 u=052 imp:n=1
06157   0                  -19    17   -14    48  -669   674 u=052 imp:n=1
06158   0                  -80    78   -48    18  -673   674 u=052 imp:n=1
06159   0                  -19    75   -48    18  -672   674 u=052 imp:n=1
06160   0                 -604    17  -341   218  -565   563 u=052 imp:n=1
06161   0                  -10    13   -14     4   -81   563 u=052 imp:n=1
06162   0                  -12     9   -14     4   -81   563 u=052 imp:n=1
06163   0                 -604    17   -48    18  -669   672 u=052 imp:n=1
06164   0                 -604    17   -48   218  -765   670 u=052 imp:n=1
06165   0                  -19    17   -14    48  -565   587 u=052 imp:n=1
06166   0                 -604    17  -341   218  -563   692 u=052 imp:n=1
06167   0                 -604    17   -48   341  -565   586 u=052 imp:n=1
06168   0                  -19    17  -384   211  -587   669 u=052 imp:n=1
06169   0                 -604    17  -211   218  -670   669 u=052 imp:n=1
06170   0                 -604    17  -341   218  -692   667 u=052 imp:n=1
06171   0                 -604    17  -384   211  -670   587 u=052 imp:n=1
06172   0                  -19    17   -14   341  -587   669 u=052 imp:n=1
06173   0                 -604    17  -341   218  -667   586 u=052 imp:n=1
06174   0                 -604    17   -48   341  -670   587 u=052 imp:n=1
06175   0                 -604    17  -341   384  -670   669 u=052 imp:n=1
06176   0                 -604    17  -218    18  -565   669 u=052 imp:n=1
06177   0                 -604    17  -384   218  -586   765 u=052 imp:n=1
06178   0                 -604    17   -48   384  -586   765 u=052 imp:n=1
06179   3  0.8540120E-01    -2     1    -4     3  -564     5 u=052  imp:n=1
06180   3  0.8540120E-01    -2     1    -8     7  -564     5 u=052  imp:n=1
06181   3  0.8540120E-01    -9     1    -7     4  -564     5 u=052  imp:n=1
06182   3  0.8540120E-01    -2    10    -7     4  -564     5 u=052  imp:n=1
06183  34  0.1035093E+00   -10   608   -83     4  -609   610 u=052  imp:n=1
06184   0                  -10     9    -7     4  -564   609 u=052 imp:n=1
06185   0                  -10     9    -7     4  -610     5 u=052 imp:n=1
06186   0                  -10     9    -7    83  -609   610 u=052 imp:n=1
06187   0                 -608     9   -83     4  -609   610 u=052 imp:n=1
06188   1  0.3030146E-01    -2     1    -4     3   -81   563 u=053  imp:n=1
06189   1  0.3030146E-01    -2     1    -8     7   -81   563 u=053  imp:n=1
06190   2  0.7570860E-01    -9     1    -7     4   -81   563 u=053  imp:n=1
06191   2  0.7570860E-01    -2    10    -7     4   -81   563 u=053  imp:n=1
06192   3  0.8540120E-01    -2     1    -4     3  -563   564 u=053  imp:n=1
06193   3  0.8540120E-01    -2     1    -8     7  -563   564 u=053  imp:n=1
06194   3  0.8540120E-01    -9     1    -7     4  -563   564 u=053  imp:n=1
06195   3  0.8540120E-01    -2    10    -7     4  -563   564 u=053  imp:n=1
06196   4  0.7332760E-01   -13    12   -14     4   -81   565 u=053  imp:n=1
06197   5  0.3966184E-01   -13    12   -14     4  -566   564 u=053  imp:n=1
06198   6  0.3747366E-01   -13    19   -14    18  -565   566 u=053  imp:n=1
06199   6  0.3747366E-01   -17    12   -14    18  -565   566 u=053  imp:n=1
06200   6  0.3747366E-01   -13    12   -18     4  -565   566 u=053  imp:n=1
06201  67  0.1389863E+00   -19   604  -341    18  -565   692 u=053  imp:n=1
06202  68  0.1389384E+00   -19   604  -341    18  -692   586 u=053  imp:n=1
06203  36  0.6435380E-01   -19   604   -48   236  -565   667 u=053  imp:n=1
06204  37  0.6435380E-01   -19   604   -48   236  -667   586 u=053  imp:n=1
06205  69  0.8126189E-01   -19   604   -48   236  -586   765 u=053  imp:n=1
06206  35  0.8186756E-01   -19   604   -48   236  -765   669 u=053  imp:n=1
06207  40  0.5178530E-01   -19   604  -385   341  -670   669 u=053  imp:n=1
06208  39  0.1185481E+00   -19   604  -386   385  -565   587 u=053  imp:n=1
06209  59  0.1256220E+00   -19   604  -341    18  -586   587 u=053  imp:n=1
06210  41  0.5279270E-01   -19   604  -236   386  -565   668 u=053  imp:n=1
06211  42  0.5392130E-01   -19   604  -236   386  -668   669 u=053  imp:n=1
06212  41  0.5279270E-01   -19   604  -385   341  -565   668 u=053  imp:n=1
06213  42  0.5392130E-01   -19   604  -385   341  -668   670 u=053  imp:n=1
06214  31  0.2714513E-01   -19   604   -48    18  -669   672 u=053  imp:n=1
```

```
06215  32  0.8823003E-01   -75    17   -48    18  -672   673 u=053  imp:n=1
06216  33  0.8829426E-01   -78    17   -48    18  -673   674 u=053  imp:n=1
06217  33  0.8829426E-01   -75    80   -48    18  -673   674 u=053  imp:n=1
06218   0                  -12     9   -14     4  -563   564 u=053 imp:n=1
06219   0                  -10    13   -14     4  -563   564 u=053 imp:n=1
06220   0                  -10     9    -7    14   -81   564 u=053 imp:n=1
06221   0                  -19    17   -14    18  -674   566 u=053 imp:n=1
06222   0                  -19    17   -14    48  -565   674 u=053 imp:n=1
06223   0                  -80    78   -48    18  -673   674 u=053 imp:n=1
06224   0                  -19    75   -48    18  -672   674 u=053 imp:n=1
06225   0                 -604    17  -386   341  -565   563 u=053 imp:n=1
06226   0                  -10    13   -14     4   -81   563 u=053 imp:n=1
06227   0                  -12     9   -14     4   -81   563 u=053 imp:n=1
06228   0                 -604    17   -48    18  -669   672 u=053 imp:n=1
06229   0                 -604    17  -236    18  -765   670 u=053 imp:n=1
06230   0                 -604    17  -386   341  -563   692 u=053 imp:n=1
06231   0                 -604    17  -341    18  -565   586 u=053 imp:n=1
06232   0                  -19    17  -341    18  -587   669 u=053 imp:n=1
06233   0                 -604    17  -341    18  -670   587 u=053 imp:n=1
06234   0                  -19    17  -386   385  -587   669 u=053 imp:n=1
06235   0                 -604    17  -236   386  -670   669 u=053 imp:n=1
06236   0                 -604    17  -386   341  -692   667 u=053 imp:n=1
06237   0                 -604    17  -386   385  -670   587 u=053 imp:n=1
06238   0                 -604    17  -385   341  -670   669 u=053 imp:n=1
06239   0                 -604    17  -386   341  -667   586 u=053 imp:n=1
06240   0                 -604    17   -48   236  -565   669 u=053 imp:n=1
06241   0                 -604    17  -386    18  -586   765 u=053 imp:n=1
06242   0                 -604    17  -236   386  -565   765 u=053 imp:n=1
06243   3  0.8540120E-01    -2     1    -4     3  -564     5 u=053  imp:n=1
06244   3  0.8540120E-01    -2     1    -8     7  -564     5 u=053  imp:n=1
06245   3  0.8540120E-01    -9     1    -7     4  -564     5 u=053  imp:n=1
06246   3  0.8540120E-01    -2    10    -7     4  -564     5 u=053  imp:n=1
06247  34  0.1035093E+00   -10   608   -83     4  -609   610 u=053  imp:n=1
06248   0                  -10     9    -7     4  -564   609 u=053 imp:n=1
06249   0                  -10     9    -7     4  -610     5 u=053 imp:n=1
06250   0                  -10     9    -7    83  -609   610 u=053 imp:n=1
06251   0                 -608     9   -83     4  -609   610 u=053 imp:n=1
06252   1  0.3030146E-01    -2     1    -4     3   -81   563 u=054  imp:n=1
06253   1  0.3030146E-01    -2     1    -8     7   -81   563 u=054  imp:n=1
06254   2  0.7570860E-01    -9     1    -7     4   -81   563 u=054  imp:n=1
06255   2  0.7570860E-01    -2    10    -7     4   -81   563 u=054  imp:n=1
06256   3  0.8540120E-01    -2     1    -4     3  -563   564 u=054  imp:n=1
06257   3  0.8540120E-01    -2     1    -8     7  -563   564 u=054  imp:n=1
06258   3  0.8540120E-01    -9     1    -7     4  -563   564 u=054  imp:n=1
06259   3  0.8540120E-01    -2    10    -7     4  -563   564 u=054  imp:n=1
06260   4  0.7332760E-01   -13    12   -14     4   -81   565 u=054  imp:n=1
06261   5  0.3966184E-01   -13    12   -14     4  -566   564 u=054  imp:n=1
06262   6  0.3747366E-01   -13    19   -14    18  -565   566 u=054  imp:n=1
06263   6  0.3747366E-01   -17    12   -14    18  -565   566 u=054  imp:n=1
06264   6  0.3747366E-01   -13    12   -18     4  -565   566 u=054  imp:n=1
06265  48  0.1333519E+00   -19   805   -48    18  -667   586 u=054  imp:n=1
06266  70  0.1209636E+00  -805   806   -48    18  -565   586 u=054  imp:n=1
06267  71  0.1208255E+00  -806   604   -48    18  -565   586 u=054  imp:n=1
06268  66  0.1220593E+00   -19   604   -48    18  -586   587 u=054  imp:n=1
06269  49  0.1333121E+00   -19   805   -48    18  -565   692 u=054  imp:n=1
06270  49  0.1333121E+00   -19   805   -48    18  -692   667 u=054  imp:n=1
06271  31  0.2714513E-01   -19   604   -48    18  -587   797 u=054  imp:n=1
06272  32  0.8823003E-01   -75    17   -48    18  -797   798 u=054  imp:n=1
06273  33  0.8829426E-01   -78    17   -48    18  -798   799 u=054  imp:n=1
06274  33  0.8829426E-01   -75    80   -48    18  -798   799 u=054  imp:n=1
06275   0                  -12     9   -14     4  -563   564 u=054 imp:n=1
06276   0                  -10    13   -14     4  -563   564 u=054 imp:n=1
06277   0                  -10     9    -7    14   -81   564 u=054 imp:n=1
06278   0                  -19    17   -14    48  -565   799 u=054 imp:n=1
06279   0                 -604    17   -48    18  -565   797 u=054 imp:n=1
06280   0                  -19    17   -14    18  -799   566 u=054 imp:n=1
06281   0                  -10    13   -14     4   -81   563 u=054 imp:n=1
06282   0                  -80    78   -48    18  -798   799 u=054 imp:n=1
06283   0                  -19    75   -48    18  -797   799 u=054 imp:n=1
06284   0                  -12     9   -14     4   -81   563 u=054 imp:n=1
06285   3  0.8540120E-01    -2     1    -4     3  -564     5 u=054  imp:n=1
06286   3  0.8540120E-01    -2     1    -8     7  -564     5 u=054  imp:n=1
06287   3  0.8540120E-01    -9     1    -7     4  -564     5 u=054  imp:n=1
06288   3  0.8540120E-01    -2    10    -7     4  -564     5 u=054  imp:n=1
06289  34  0.1035093E+00   -10   608   -83     4  -609   610 u=054  imp:n=1
06290   0                  -10     9    -7     4  -564   609 u=054 imp:n=1
```

```
06291   0                  -10     9    -7     4  -610     5 u=054 imp:n=1
06292   0                  -10     9    -7    83  -609   610 u=054 imp:n=1
06293   0                 -608     9   -83     4  -609   610 u=054 imp:n=1
06294   1  0.3030146E-01    -2     1    -4     3   -81   563 u=055  imp:n=1
06295   1  0.3030146E-01    -2     1    -8     7   -81   563 u=055  imp:n=1
06296   2  0.7570860E-01    -9     1    -7     4   -81   563 u=055  imp:n=1
06297   2  0.7570860E-01    -2    10    -7     4   -81   563 u=055  imp:n=1
06298   3  0.8540120E-01    -2     1    -4     3  -563   564 u=055  imp:n=1
06299   3  0.8540120E-01    -2     1    -8     7  -563   564 u=055  imp:n=1
06300   3  0.8540120E-01    -9     1    -7     4  -563   564 u=055  imp:n=1
06301   3  0.8540120E-01    -2    10    -7     4  -563   564 u=055  imp:n=1
06302   4  0.7332760E-01   -13    12   -14     4   -81   565 u=055  imp:n=1
06303   5  0.3966184E-01   -13    12   -14     4  -566   564 u=055  imp:n=1
06304   6  0.3747366E-01   -13    19   -14    18  -565   566 u=055  imp:n=1
06305   6  0.3747366E-01   -17    12   -14    18  -565   566 u=055  imp:n=1
06306   6  0.3747366E-01   -13    12   -18     4  -565   566 u=055  imp:n=1
06307  48  0.1333519E+00  -806   604   -48    18  -667   586 u=055  imp:n=1
06308  70  0.1209636E+00  -805   806   -48    18  -565   586 u=055  imp:n=1
06309  71  0.1208255E+00   -19   805   -48    18  -565   586 u=055  imp:n=1
06310  66  0.1220593E+00   -19   604   -48    18  -586   587 u=055  imp:n=1
06311  49  0.1333121E+00  -806   604   -48    18  -565   692 u=055  imp:n=1
06312  49  0.1333121E+00  -806   604   -48    18  -692   667 u=055  imp:n=1
06313  31  0.2714513E-01   -19   604   -48    18  -587   797 u=055  imp:n=1
06314  32  0.8823003E-01   -75    17   -48    18  -797   798 u=055  imp:n=1
06315  33  0.8829426E-01   -78    17   -48    18  -798   799 u=055  imp:n=1
06316  33  0.8829426E-01   -75    80   -48    18  -798   799 u=055  imp:n=1
06317   0                  -12     9   -14     4  -563   564 u=055 imp:n=1
06318   0                  -10    13   -14     4  -563   564 u=055 imp:n=1
06319   0                  -10     9    -7    14   -81   564 u=055 imp:n=1
06320   0                  -19    17   -14    48  -565   799 u=055 imp:n=1
06321   0                 -604    17   -48    18  -565   797 u=055 imp:n=1
06322   0                  -10    13   -14     4   -81   563 u=055 imp:n=1
06323   0                  -19    17   -14    18  -799   566 u=055 imp:n=1
06324   0                  -12     9   -14     4   -81   563 u=055 imp:n=1
06325   0                  -80    78   -48    18  -798   799 u=055 imp:n=1
06326   0                  -19    75   -48    18  -797   799 u=055 imp:n=1
06327   3  0.8540120E-01    -2     1    -4     3  -564     5 u=055  imp:n=1
06328   3  0.8540120E-01    -2     1    -8     7  -564     5 u=055  imp:n=1
06329   3  0.8540120E-01    -9     1    -7     4  -564     5 u=055  imp:n=1
06330   3  0.8540120E-01    -2    10    -7     4  -564     5 u=055  imp:n=1
06331  34  0.1035093E+00   -10   608   -83     4  -609   610 u=055  imp:n=1
06332   0                  -10     9    -7     4  -564   609 u=055 imp:n=1
06333   0                  -10     9    -7     4  -610     5 u=055 imp:n=1
06334   0                  -10     9    -7    83  -609   610 u=055 imp:n=1
06335   0                 -608     9   -83     4  -609   610 u=055 imp:n=1
06336   1  0.3030146E-01    -2     1    -4     3   -81   563 u=056  imp:n=1
06337   1  0.3030146E-01    -2     1    -8     7   -81   563 u=056  imp:n=1
06338   2  0.7570860E-01    -9     1    -7     4   -81   563 u=056  imp:n=1
06339   2  0.7570860E-01    -2    10    -7     4   -81   563 u=056  imp:n=1
06340   3  0.8540120E-01    -2     1    -4     3  -563   564 u=056  imp:n=1
06341   3  0.8540120E-01    -2     1    -8     7  -563   564 u=056  imp:n=1
06342   3  0.8540120E-01    -9     1    -7     4  -563   564 u=056  imp:n=1
06343   3  0.8540120E-01    -2    10    -7     4  -563   564 u=056  imp:n=1
06344   4  0.7332760E-01   -13    12   -14     4   -81   565 u=056  imp:n=1
06345   5  0.3966184E-01   -13    12   -14     4  -566   564 u=056  imp:n=1
06346   6  0.3747366E-01   -13    19   -14    18  -565   566 u=056  imp:n=1
06347   6  0.3747366E-01   -17    12   -14    18  -565   566 u=056  imp:n=1
06348   6  0.3747366E-01   -13    12   -18     4  -565   566 u=056  imp:n=1
06349  48  0.1333519E+00   -19   604  -222    18  -667   586 u=056  imp:n=1
06350  70  0.1209636E+00   -19   604  -224   222  -565   586 u=056  imp:n=1
06351  71  0.1208255E+00   -19   604   -48   224  -565   586 u=056  imp:n=1
06352  66  0.1220593E+00   -19   604   -48    18  -586   587 u=056  imp:n=1
06353  49  0.1333121E+00   -19   604  -222    18  -565   692 u=056  imp:n=1
06354  49  0.1333121E+00   -19   604  -222    18  -692   667 u=056  imp:n=1
06355  31  0.2714513E-01   -19   604   -48    18  -587   797 u=056  imp:n=1
06356  32  0.8823003E-01   -75    17   -48    18  -797   798 u=056  imp:n=1
06357  33  0.8829426E-01   -78    17   -48    18  -798   799 u=056  imp:n=1
06358  33  0.8829426E-01   -75    80   -48    18  -798   799 u=056  imp:n=1
06359   0                  -12     9   -14     4  -563   564 u=056 imp:n=1
06360   0                  -10    13   -14     4  -563   564 u=056 imp:n=1
06361   0                  -10     9    -7    14   -81   564 u=056 imp:n=1
06362   0                 -604    17   -48    18  -563   667 u=056 imp:n=1
06363   0                 -604    17   -48    18  -565   563 u=056 imp:n=1
06364   0                  -19    17   -14    48  -565   799 u=056 imp:n=1
06365   0                  -10    13   -14     4   -81   563 u=056 imp:n=1
06366   0                  -12     9   -14     4   -81   563 u=056 imp:n=1
```

```
06367   0                  -19    17   -14    18  -799   566 u=056 imp:n=1
06368   0                  -80    78   -48    18  -798   799 u=056 imp:n=1
06369   0                  -19    75   -48    18  -797   799 u=056 imp:n=1
06370   0                 -604    17   -48    18  -667   586 u=056 imp:n=1
06371   0                 -604    17   -48    18  -586   797 u=056 imp:n=1
06372   3  0.8540120E-01    -2     1    -4     3  -564     5 u=056  imp:n=1
06373   3  0.8540120E-01    -2     1    -8     7  -564     5 u=056  imp:n=1
06374   3  0.8540120E-01    -9     1    -7     4  -564     5 u=056  imp:n=1
06375   3  0.8540120E-01    -2    10    -7     4  -564     5 u=056  imp:n=1
06376  34  0.1035093E+00   -10   608   -83     4  -609   610 u=056  imp:n=1
06377   0                  -10     9    -7     4  -564   609 u=056 imp:n=1
06378   0                  -10     9    -7     4  -610     5 u=056 imp:n=1
06379   0                  -10     9    -7    83  -609   610 u=056 imp:n=1
06380   0                 -608     9   -83     4  -609   610 u=056 imp:n=1
06381   1  0.3030146E-01    -2     1    -4     3   -81   563 u=057  imp:n=1
06382   1  0.3030146E-01    -2     1    -8     7   -81   563 u=057  imp:n=1
06383   2  0.7570860E-01    -9     1    -7     4   -81   563 u=057  imp:n=1
06384   2  0.7570860E-01    -2    10    -7     4   -81   563 u=057  imp:n=1
06385   3  0.8540120E-01    -2     1    -4     3  -563   564 u=057  imp:n=1
06386   3  0.8540120E-01    -2     1    -8     7  -563   564 u=057  imp:n=1
06387   3  0.8540120E-01    -9     1    -7     4  -563   564 u=057  imp:n=1
06388   3  0.8540120E-01    -2    10    -7     4  -563   564 u=057  imp:n=1
06389   4  0.7332760E-01   -13    12   -14     4   -81   565 u=057  imp:n=1
06390   5  0.3966184E-01   -13    12   -14     4  -566   564 u=057  imp:n=1
06391   6  0.3747366E-01   -13    19   -14    18  -565   566 u=057  imp:n=1
06392   6  0.3747366E-01   -17    12   -14    18  -565   566 u=057  imp:n=1
06393   6  0.3747366E-01   -13    12   -18     4  -565   566 u=057  imp:n=1
06394  48  0.1333519E+00   -19   604   -48   224  -667   586 u=057  imp:n=1
06395  70  0.1209636E+00   -19   604  -224   222  -565   586 u=057  imp:n=1
06396  71  0.1208255E+00   -19   604  -222    18  -565   586 u=057  imp:n=1
06397  66  0.1220593E+00   -19   604   -48    18  -586   587 u=057  imp:n=1
06398  49  0.1333121E+00   -19   604   -48   224  -565   692 u=057  imp:n=1
06399  49  0.1333121E+00   -19   604   -48   224  -692   667 u=057  imp:n=1
06400  31  0.2714513E-01   -19   604   -48    18  -587   797 u=057  imp:n=1
06401  32  0.8823003E-01   -75    17   -48    18  -797   798 u=057  imp:n=1
06402  33  0.8829426E-01   -78    17   -48    18  -798   799 u=057  imp:n=1
06403  33  0.8829426E-01   -75    80   -48    18  -798   799 u=057  imp:n=1
06404   0                  -12     9   -14     4  -563   564 u=057 imp:n=1
06405   0                  -10    13   -14     4  -563   564 u=057 imp:n=1
06406   0                  -10     9    -7    14   -81   564 u=057 imp:n=1
06407   0                 -604    17  -224    18  -563   667 u=057 imp:n=1
06408   0                  -19    17   -14    48  -565   799 u=057 imp:n=1
06409   0                 -604    17   -48   224  -565   586 u=057 imp:n=1
06410   0                 -604    17  -224    18  -565   563 u=057 imp:n=1
06411   0                  -10    13   -14     4   -81   563 u=057 imp:n=1
06412   0                  -12     9   -14     4   -81   563 u=057 imp:n=1
06413   0                  -19    17   -14    18  -799   566 u=057 imp:n=1
06414   0                  -80    78   -48    18  -798   799 u=057 imp:n=1
06415   0                  -19    75   -48    18  -797   799 u=057 imp:n=1
06416   0                 -604    17  -224    18  -667   586 u=057 imp:n=1
06417   0                 -604    17   -48    18  -586   797 u=057 imp:n=1
06418   3  0.8540120E-01    -2     1    -4     3  -564     5 u=057  imp:n=1
06419   3  0.8540120E-01    -2     1    -8     7  -564     5 u=057  imp:n=1
06420   3  0.8540120E-01    -9     1    -7     4  -564     5 u=057  imp:n=1
06421   3  0.8540120E-01    -2    10    -7     4  -564     5 u=057  imp:n=1
06422  34  0.1035093E+00   -10   608   -83     4  -609   610 u=057  imp:n=1
06423   0                  -10     9    -7     4  -564   609 u=057 imp:n=1
06424   0                  -10     9    -7     4  -610     5 u=057 imp:n=1
06425   0                  -10     9    -7    83  -609   610 u=057 imp:n=1
06426   0                 -608     9   -83     4  -609   610 u=057 imp:n=1
06427   1  0.3030146E-01    -2     1    -4     3   -81   563 u=058  imp:n=1
06428   1  0.3030146E-01    -2     1    -8     7   -81   563 u=058  imp:n=1
06429   2  0.7570860E-01    -9     1    -7     4   -81   563 u=058  imp:n=1
06430   2  0.7570860E-01    -2    10    -7     4   -81   563 u=058  imp:n=1
06431   3  0.8540120E-01    -2     1    -4     3  -563   564 u=058  imp:n=1
06432   3  0.8540120E-01    -2     1    -8     7  -563   564 u=058  imp:n=1
06433   3  0.8540120E-01    -9     1    -7     4  -563   564 u=058  imp:n=1
06434   3  0.8540120E-01    -2    10    -7     4  -563   564 u=058  imp:n=1
06435   4  0.7332760E-01   -13    12   -14     4   -81   565 u=058  imp:n=1
06436   5  0.3966184E-01   -13    12   -14     4  -566   564 u=058  imp:n=1
06437   6  0.3747366E-01   -13    19   -14    18  -565   566 u=058  imp:n=1
06438   6  0.3747366E-01   -17    12   -14    18  -565   566 u=058  imp:n=1
06439   6  0.3747366E-01   -13    12   -18     4  -565   566 u=058  imp:n=1
06440  67  0.1389863E+00   -19   796   -48    18  -565   692 u=058  imp:n=1
06441  68  0.1389384E+00   -19   796   -48    18  -692   586 u=058  imp:n=1
06442  70  0.1209636E+00  -796   604   -48    18  -565   586 u=058  imp:n=1
```

```
06443  66  0.1220593E+00   -19   604   -48    18  -586   587 u=058  imp:n=1
06444  31  0.2714513E-01   -19   604   -48    18  -587   797 u=058  imp:n=1
06445  32  0.8823003E-01   -75    17   -48    18  -797   798 u=058  imp:n=1
06446  33  0.8829426E-01   -78    17   -48    18  -798   799 u=058  imp:n=1
06447  33  0.8829426E-01   -75    80   -48    18  -798   799 u=058  imp:n=1
06448   0                  -12     9   -14     4  -563   564 u=058 imp:n=1
06449   0                  -10    13   -14     4  -563   564 u=058 imp:n=1
06450   0                  -10     9    -7    14   -81   564 u=058 imp:n=1
06451   0                  -19    17   -14    18  -799   566 u=058 imp:n=1
06452   0                  -19    17   -14    48  -565   799 u=058 imp:n=1
06453   0                  -80    78   -48    18  -798   799 u=058 imp:n=1
06454   0                  -19    75   -48    18  -797   799 u=058 imp:n=1
06455   0                  -10    13   -14     4   -81   563 u=058 imp:n=1
06456   0                  -12     9   -14     4   -81   563 u=058 imp:n=1
06457   0                 -604    17   -48    18  -565   797 u=058 imp:n=1
06458   3  0.8540120E-01    -2     1    -4     3  -564     5 u=058  imp:n=1
06459   3  0.8540120E-01    -2     1    -8     7  -564     5 u=058  imp:n=1
06460   3  0.8540120E-01    -9     1    -7     4  -564     5 u=058  imp:n=1
06461   3  0.8540120E-01    -2    10    -7     4  -564     5 u=058  imp:n=1
06462  34  0.1035093E+00   -10   608   -83     4  -609   610 u=058  imp:n=1
06463   0                  -10     9    -7     4  -564   609 u=058 imp:n=1
06464   0                  -10     9    -7     4  -610     5 u=058 imp:n=1
06465   0                  -10     9    -7    83  -609   610 u=058 imp:n=1
06466   0                 -608     9   -83     4  -609   610 u=058 imp:n=1
06467   1  0.3030146E-01    -2     1    -4     3   -81   563 u=059  imp:n=1
06468   1  0.3030146E-01    -2     1    -8     7   -81   563 u=059  imp:n=1
06469   2  0.7570860E-01    -9     1    -7     4   -81   563 u=059  imp:n=1
06470   2  0.7570860E-01    -2    10    -7     4   -81   563 u=059  imp:n=1
06471   3  0.8540120E-01    -2     1    -4     3  -563   564 u=059  imp:n=1
06472   3  0.8540120E-01    -2     1    -8     7  -563   564 u=059  imp:n=1
06473   3  0.8540120E-01    -9     1    -7     4  -563   564 u=059  imp:n=1
06474   3  0.8540120E-01    -2    10    -7     4  -563   564 u=059  imp:n=1
06475   4  0.7332760E-01   -13    12   -14     4   -81   565 u=059  imp:n=1
06476   5  0.3966184E-01   -13    12   -14     4  -566   564 u=059  imp:n=1
06477   6  0.3747366E-01   -13    19   -14    18  -565   566 u=059  imp:n=1
06478   6  0.3747366E-01   -17    12   -14    18  -565   566 u=059  imp:n=1
06479   6  0.3747366E-01   -13    12   -18     4  -565   566 u=059  imp:n=1
06480  67  0.1389863E+00  -796   604   -48    18  -565   692 u=059  imp:n=1
06481  68  0.1389384E+00  -796   604   -48    18  -692   586 u=059  imp:n=1
06482  70  0.1209636E+00   -19   796   -48    18  -565   586 u=059  imp:n=1
06483  66  0.1220593E+00   -19   604   -48    18  -586   587 u=059  imp:n=1
06484  31  0.2714513E-01   -19   604   -48    18  -587   797 u=059  imp:n=1
06485  32  0.8823003E-01   -75    17   -48    18  -797   798 u=059  imp:n=1
06486  33  0.8829426E-01   -78    17   -48    18  -798   799 u=059  imp:n=1
06487  33  0.8829426E-01   -75    80   -48    18  -798   799 u=059  imp:n=1
06488   0                  -12     9   -14     4  -563   564 u=059 imp:n=1
06489   0                  -10    13   -14     4  -563   564 u=059 imp:n=1
06490   0                  -10     9    -7    14   -81   564 u=059 imp:n=1
06491   0                  -19    17   -14    18  -799   566 u=059 imp:n=1
06492   0                  -19    17   -14    48  -565   799 u=059 imp:n=1
06493   0                  -80    78   -48    18  -798   799 u=059 imp:n=1
06494   0                  -19    75   -48    18  -797   799 u=059 imp:n=1
06495   0                  -10    13   -14     4   -81   563 u=059 imp:n=1
06496   0                  -12     9   -14     4   -81   563 u=059 imp:n=1
06497   0                 -604    17   -48    18  -565   797 u=059 imp:n=1
06498   3  0.8540120E-01    -2     1    -4     3  -564     5 u=059  imp:n=1
06499   3  0.8540120E-01    -2     1    -8     7  -564     5 u=059  imp:n=1
06500   3  0.8540120E-01    -9     1    -7     4  -564     5 u=059  imp:n=1
06501   3  0.8540120E-01    -2    10    -7     4  -564     5 u=059  imp:n=1
06502  34  0.1035093E+00   -10   608   -83     4  -609   610 u=059  imp:n=1
06503   0                  -10     9    -7     4  -564   609 u=059 imp:n=1
06504   0                  -10     9    -7     4  -610     5 u=059 imp:n=1
06505   0                  -10     9    -7    83  -609   610 u=059 imp:n=1
06506   0                 -608     9   -83     4  -609   610 u=059 imp:n=1
06507   1  0.3030146E-01    -2     1    -4     3   -81   563 u=060  imp:n=1
06508   1  0.3030146E-01    -2     1    -8     7   -81   563 u=060  imp:n=1
06509   2  0.7570860E-01    -9     1    -7     4   -81   563 u=060  imp:n=1
06510   2  0.7570860E-01    -2    10    -7     4   -81   563 u=060  imp:n=1
06511   3  0.8540120E-01    -2     1    -4     3  -563   564 u=060  imp:n=1
06512   3  0.8540120E-01    -2     1    -8     7  -563   564 u=060  imp:n=1
06513   3  0.8540120E-01    -9     1    -7     4  -563   564 u=060  imp:n=1
06514   3  0.8540120E-01    -2    10    -7     4  -563   564 u=060  imp:n=1
06515   4  0.7332760E-01   -13    12   -14     4   -81   565 u=060  imp:n=1
06516   5  0.3966184E-01   -13    12   -14     4  -566   564 u=060  imp:n=1
06517   6  0.3747366E-01   -13    19   -14    18  -565   566 u=060  imp:n=1
06518   6  0.3747366E-01   -17    12   -14    18  -565   566 u=060  imp:n=1
```

```
06519   6  0.3747366E-01   -13    12   -18     4  -565   566 u=060  imp:n=1
06520  67  0.1389863E+00   -19   604  -341    18  -565   692 u=060  imp:n=1
06521  68  0.1389384E+00   -19   604  -341    18  -692   586 u=060  imp:n=1
06522  70  0.1209636E+00   -19   604   -48   341  -565   586 u=060  imp:n=1
06523  66  0.1220593E+00   -19   604   -48    18  -586   587 u=060  imp:n=1
06524  31  0.2714513E-01   -19   604   -48    18  -587   797 u=060  imp:n=1
06525  32  0.8823003E-01   -75    17   -48    18  -797   798 u=060  imp:n=1
06526  33  0.8829426E-01   -78    17   -48    18  -798   799 u=060  imp:n=1
06527  33  0.8829426E-01   -75    80   -48    18  -798   799 u=060  imp:n=1
06528   0                  -12     9   -14     4  -563   564 u=060 imp:n=1
06529   0                  -10    13   -14     4  -563   564 u=060 imp:n=1
06530   0                  -10     9    -7    14   -81   564 u=060 imp:n=1
06531   0                  -19    17   -14    18  -799   566 u=060 imp:n=1
06532   0                  -19    17   -14    48  -565   799 u=060 imp:n=1
06533   0                  -80    78   -48    18  -798   799 u=060 imp:n=1
06534   0                  -19    75   -48    18  -797   799 u=060 imp:n=1
06535   0                 -604    17   -48    18  -565   563 u=060 imp:n=1
06536   0                  -10    13   -14     4   -81   563 u=060 imp:n=1
06537   0                  -12     9   -14     4   -81   563 u=060 imp:n=1
06538   0                 -604    17   -48    18  -586   797 u=060 imp:n=1
06539   0                 -604    17   -48    18  -563   692 u=060 imp:n=1
06540   0                 -604    17   -48    18  -692   586 u=060 imp:n=1
06541   3  0.8540120E-01    -2     1    -4     3  -564     5 u=060  imp:n=1
06542   3  0.8540120E-01    -2     1    -8     7  -564     5 u=060  imp:n=1
06543   3  0.8540120E-01    -9     1    -7     4  -564     5 u=060  imp:n=1
06544   3  0.8540120E-01    -2    10    -7     4  -564     5 u=060  imp:n=1
06545  34  0.1035093E+00   -10   608   -83     4  -609   610 u=060  imp:n=1
06546   0                  -10     9    -7     4  -564   609 u=060 imp:n=1
06547   0                  -10     9    -7     4  -610     5 u=060 imp:n=1
06548   0                  -10     9    -7    83  -609   610 u=060 imp:n=1
06549   0                 -608     9   -83     4  -609   610 u=060 imp:n=1
06550   1  0.3030146E-01    -2     1    -4     3   -81   563 u=061  imp:n=1
06551   1  0.3030146E-01    -2     1    -8     7   -81   563 u=061  imp:n=1
06552   2  0.7570860E-01    -9     1    -7     4   -81   563 u=061  imp:n=1
06553   2  0.7570860E-01    -2    10    -7     4   -81   563 u=061  imp:n=1
06554   3  0.8540120E-01    -2     1    -4     3  -563   564 u=061  imp:n=1
06555   3  0.8540120E-01    -2     1    -8     7  -563   564 u=061  imp:n=1
06556   3  0.8540120E-01    -9     1    -7     4  -563   564 u=061  imp:n=1
06557   3  0.8540120E-01    -2    10    -7     4  -563   564 u=061  imp:n=1
06558   4  0.7332760E-01   -13    12   -14     4   -81   565 u=061  imp:n=1
06559   5  0.3966184E-01   -13    12   -14     4  -566   564 u=061  imp:n=1
06560   6  0.3747366E-01   -13    19   -14    18  -565   566 u=061  imp:n=1
06561   6  0.3747366E-01   -17    12   -14    18  -565   566 u=061  imp:n=1
06562   6  0.3747366E-01   -13    12   -18     4  -565   566 u=061  imp:n=1
06563  67  0.1389863E+00   -19   604   -48   341  -565   692 u=061  imp:n=1
06564  68  0.1389384E+00   -19   604   -48   341  -692   586 u=061  imp:n=1
06565  70  0.1209636E+00   -19   604  -341    18  -565   586 u=061  imp:n=1
06566  66  0.1220593E+00   -19   604   -48    18  -586   587 u=061  imp:n=1
06567  31  0.2714513E-01   -19   604   -48    18  -587   797 u=061  imp:n=1
06568  32  0.8823003E-01   -75    17   -48    18  -797   798 u=061  imp:n=1
06569  33  0.8829426E-01   -78    17   -48    18  -798   799 u=061  imp:n=1
06570  33  0.8829426E-01   -75    80   -48    18  -798   799 u=061  imp:n=1
06571   0                  -12     9   -14     4  -563   564 u=061 imp:n=1
06572   0                  -10    13   -14     4  -563   564 u=061 imp:n=1
06573   0                  -10     9    -7    14   -81   564 u=061 imp:n=1
06574   0                  -19    17   -14    18  -799   566 u=061 imp:n=1
06575   0                  -19    17   -14    48  -565   799 u=061 imp:n=1
06576   0                  -80    78   -48    18  -798   799 u=061 imp:n=1
06577   0                  -19    75   -48    18  -797   799 u=061 imp:n=1
06578   0                 -604    17   -48    18  -565   563 u=061 imp:n=1
06579   0                  -10    13   -14     4   -81   563 u=061 imp:n=1
06580   0                  -12     9   -14     4   -81   563 u=061 imp:n=1
06581   0                 -604    17   -48    18  -586   797 u=061 imp:n=1
06582   0                 -604    17   -48    18  -563   692 u=061 imp:n=1
06583   0                 -604    17   -48    18  -692   586 u=061 imp:n=1
06584   3  0.8540120E-01    -2     1    -4     3  -564     5 u=061  imp:n=1
06585   3  0.8540120E-01    -2     1    -8     7  -564     5 u=061  imp:n=1
06586   3  0.8540120E-01    -9     1    -7     4  -564     5 u=061  imp:n=1
06587   3  0.8540120E-01    -2    10    -7     4  -564     5 u=061  imp:n=1
06588  34  0.1035093E+00   -10   608   -83     4  -609   610 u=061  imp:n=1
06589   0                  -10     9    -7     4  -564   609 u=061 imp:n=1
06590   0                  -10     9    -7     4  -610     5 u=061 imp:n=1
06591   0                  -10     9    -7    83  -609   610 u=061 imp:n=1
06592   0                 -608     9   -83     4  -609   610 u=061 imp:n=1
06593   1  0.3030146E-01    -2     1    -4     3   -81   563 u=062  imp:n=1
06594   1  0.3030146E-01    -2     1    -8     7   -81   563 u=062  imp:n=1
```

```
06595   2  0.7570860E-01    -9     1    -7     4   -81   563 u=062  imp:n=1
06596   2  0.7570860E-01    -2    10    -7     4   -81   563 u=062  imp:n=1
06597   3  0.8540120E-01    -2     1    -4     3  -563   564 u=062  imp:n=1
06598   3  0.8540120E-01    -2     1    -8     7  -563   564 u=062  imp:n=1
06599   3  0.8540120E-01    -9     1    -7     4  -563   564 u=062  imp:n=1
06600   3  0.8540120E-01    -2    10    -7     4  -563   564 u=062  imp:n=1
06601  72  0.8564162E-01   -10   389  -390     4  -807   564 u=062  imp:n=1
06602  72  0.8564162E-01   -10   389    -7   392  -807   564 u=062  imp:n=1
06603  73  0.8771651E-01   -10   394  -392   390  -807   564 u=062  imp:n=1
06604  73  0.8771651E-01  -393   389  -392   390  -807   564 u=062  imp:n=1
06605  74  0.8680103E-01  -394   808  -396   390  -809   810 u=062  imp:n=1
06606  75  0.3674999E-01  -394   808  -396   399  -810   564 u=062  imp:n=1
06607  75  0.3674999E-01  -394   808  -400   390  -810   564 u=062  imp:n=1
06608  76  0.6069073E-01  -394   811  -399   400  -810   564 u=062  imp:n=1
06609  76  0.6069073E-01  -812   808  -399   400  -810   564 u=062  imp:n=1
06610  77  0.1249976E+00  -811   812  -399   400  -810   564 u=062  imp:n=1
06611  78  0.8810584E-01  -404   403   -14     4   -81   565 u=062  imp:n=1
06612  79  0.4710631E-01  -404   403   -14     4  -566   564 u=062  imp:n=1
06613  80  0.4041931E-01  -404   406   -14    18  -565   566 u=062  imp:n=1
06614  80  0.4041931E-01  -405   403   -14    18  -565   566 u=062  imp:n=1
06615  81  0.2987062E-01  -404   403   -18     4  -565   566 u=062  imp:n=1
06616  82  0.6445910E-01  -406   813   -48    18  -565   667 u=062  imp:n=1
06617  37  0.6435380E-01  -406   813   -48    18  -667   586 u=062  imp:n=1
06618  35  0.8186756E-01  -813   814   -48    18  -667   586 u=062  imp:n=1
06619  41  0.5279270E-01  -816   815   -48    18  -565   669 u=062  imp:n=1
06620  23  0.1232400E+00  -814   816   -48    18  -565   586 u=062  imp:n=1
06621  24  0.1232187E+00  -814   816   -48    18  -586   587 u=062  imp:n=1
06622  38  0.8323048E-01  -406   814   -48    18  -586   587 u=062  imp:n=1
06623  67  0.1389863E+00  -815   817   -48    18  -565   692 u=062  imp:n=1
06624  68  0.1389384E+00  -815   817   -48    18  -692   586 u=062  imp:n=1
06625  59  0.1256220E+00  -815   817   -48    18  -586   587 u=062  imp:n=1
06626  83  0.2714513E-01  -406   817   -48    18  -669   672 u=062  imp:n=1
06627   0                 -403     9  -392   390  -807   564 u=062 imp:n=1
06628   0                 -406   405  -392    18  -672   566 u=062 imp:n=1
06629   0                 -406   405  -392    48  -807   672 u=062 imp:n=1
06630   0                 -817   405   -48    18  -669   672 u=062 imp:n=1
06631   0                 -815   405   -48    18  -587   669 u=062 imp:n=1
06632   0                 -817   405   -48   390  -807   587 u=062 imp:n=1
06633   0                 -406   816   -48    18  -587   669 u=062 imp:n=1
06634   0                 -389   404  -390     4  -807   563 u=062 imp:n=1
06635   0                 -403     9  -390     4  -807   563 u=062 imp:n=1
06636   0                 -813   814   -48    18  -807   563 u=062 imp:n=1
06637   0                 -813   814   -48    18  -565   807 u=062 imp:n=1
06638   0                 -817   405   -48    18  -565   807 u=062 imp:n=1
06639   0                 -813   814   -48    18  -563   667 u=062 imp:n=1
06640   0                 -389   404  -392   390  -807   564 u=062 imp:n=1
06641   0                 -406   405   -14    48  -565   807 u=062 imp:n=1
06642   0                  -10     9    -7    14   -81   807 u=062 imp:n=1
06643   0                 -394   393  -392   390  -807   809 u=062 imp:n=1
06644   0                 -808   393  -396   390  -809   564 u=062 imp:n=1
06645   0                  -10   404   -14     4   -81   807 u=062 imp:n=1
06646   0                 -394   393  -392   396  -809   564 u=062 imp:n=1
06647   0                 -403     9   -14     4   -81   807 u=062 imp:n=1
06648   0                 -817   405  -390    18  -807   587 u=062 imp:n=1
06649   0                 -389   404  -390     4  -563   564 u=062 imp:n=1
06650   0                 -389     9    -7    14  -807   564 u=062 imp:n=1
06651   0                 -403     9   -14   392  -807   564 u=062 imp:n=1
06652   0                 -406   405   -14   392  -807   566 u=062 imp:n=1
06653   0                 -389   404   -14   392  -807   564 u=062 imp:n=1
06654   0                 -403     9  -390     4  -563   564 u=062 imp:n=1
06655   3  0.8540120E-01    -2     1    -4     3  -564     5 u=062  imp:n=1
06656   3  0.8540120E-01    -2     1    -8     7  -564     5 u=062  imp:n=1
06657   3  0.8540120E-01    -9     1    -7     4  -564     5 u=062  imp:n=1
06658   3  0.8540120E-01    -2    10    -7     4  -564     5 u=062  imp:n=1
06659  72  0.8564162E-01   -10   389  -390     4  -564     5 u=062  imp:n=1
06660  72  0.8564162E-01   -10   389    -7   392  -564     5 u=062  imp:n=1
06661  73  0.8771651E-01   -10   394  -392   390  -564     5 u=062  imp:n=1
06662  73  0.8771651E-01  -393   389  -392   390  -564     5 u=062  imp:n=1
06663  74  0.8680103E-01  -394   808  -396   390  -564   818 u=062  imp:n=1
06664  75  0.3674999E-01  -394   808  -396   399  -818     5 u=062  imp:n=1
06665  75  0.3674999E-01  -394   808  -400   390  -818     5 u=062  imp:n=1
06666  76  0.6069073E-01  -394   811  -399   400  -818     5 u=062  imp:n=1
06667  76  0.6069073E-01  -812   808  -399   400  -818     5 u=062  imp:n=1
06668  77  0.1249976E+00  -811   812  -399   400  -818     5 u=062  imp:n=1
06669  84  0.1031404E+00  -389   608   -83     4  -609   610 u=062  imp:n=1
06670   0                 -389     9  -392     4  -564   609 u=062 imp:n=1
```

```
06671   0                -389     9  -392     4  -610     5 u=062 imp:n=1
06672   0                -389     9  -392    83  -609   610 u=062 imp:n=1
06673   0                -608     9   -83     4  -609   610 u=062 imp:n=1
06674   0                -808   393  -396   390  -564     5 u=062 imp:n=1
06675   0                -394   393  -392   396  -564     5 u=062 imp:n=1
06676   0                -389     9    -7   392  -564     5 u=062 imp:n=1
06677   1  0.3030146E-01   -2     1    -4     3   -81   563 u=063  imp:n=1
06678   1  0.3030146E-01   -2     1    -8     7   -81   563 u=063  imp:n=1
06679   2  0.7570860E-01   -9     1    -7     4   -81   563 u=063  imp:n=1
06680   2  0.7570860E-01   -2    10    -7     4   -81   563 u=063  imp:n=1
06681   3  0.8540120E-01   -2     1    -4     3  -563   564 u=063  imp:n=1
06682   3  0.8540120E-01   -2     1    -8     7  -563   564 u=063  imp:n=1
06683   3  0.8540120E-01   -9     1    -7     4  -563   564 u=063  imp:n=1
06684   3  0.8540120E-01   -2    10    -7     4  -563   564 u=063  imp:n=1
06685   4  0.7332760E-01  -13    12   -14     4   -81   565 u=063  imp:n=1
06686   5  0.3966184E-01  -13    12   -14     4  -566   564 u=063  imp:n=1
06687   6  0.3747366E-01  -13    19   -14    18  -565   566 u=063  imp:n=1
06688   6  0.3747366E-01  -17    12   -14    18  -565   566 u=063  imp:n=1
06689   6  0.3747366E-01  -13    12   -18     4  -565   566 u=063  imp:n=1
06690   7  0.8235419E-01  -19    63   -21    18  -565   567 u=063  imp:n=1
06691   7  0.8235419E-01  -19    63   -21    18  -568   569 u=063  imp:n=1
06692   8  0.7986135E-01  -19    63   -21    25  -567   568 u=063  imp:n=1
06693   8  0.7986135E-01  -19    63   -26    18  -567   568 u=063  imp:n=1
06694   9  0.6943934E-01  -19    65   -25    26  -567   568 u=063  imp:n=1
06695   9  0.6943934E-01  -64    63   -25    26  -567   568 u=063  imp:n=1
06696  10  0.4603587E-01  -65    64   -25    26  -567   568 u=063  imp:n=1
06697  11  0.7961518E-01  -73   570   -21    18  -565   567 u=063  imp:n=1
06698  11  0.7961518E-01  -73   570   -21    18  -571   572 u=063  imp:n=1
06699  12  0.7714468E-01  -73   570   -21    25  -567   571 u=063  imp:n=1
06700  12  0.7714468E-01  -73   570   -26    18  -567   571 u=063  imp:n=1
06701  13  0.6712964E-01  -73   573   -25    26  -567   571 u=063  imp:n=1
06702  13  0.6712964E-01 -574   570   -25    26  -567   571 u=063  imp:n=1
06703  14  0.4579853E-01 -573   574   -25    26  -567   571 u=063  imp:n=1
06704  11  0.7961518E-01  -73   570   -21    18  -572   575 u=063  imp:n=1
06705  11  0.7961518E-01  -73   570   -21    18  -576   577 u=063  imp:n=1
06706  12  0.7714468E-01  -73   570   -21    25  -575   576 u=063  imp:n=1
06707  12  0.7714468E-01  -73   570   -26    18  -575   576 u=063  imp:n=1
06708  13  0.6712964E-01  -73   573   -25    26  -575   576 u=063  imp:n=1
06709  13  0.6712964E-01 -574   570   -25    26  -575   576 u=063  imp:n=1
06710  14  0.4579853E-01 -573   574   -25    26  -575   576 u=063  imp:n=1
06711  15  0.8003452E-01 -579   578   -21    18  -565   567 u=063  imp:n=1
06712  15  0.8003452E-01 -579   578   -21    18  -568   569 u=063  imp:n=1
06713  16  0.7744373E-01 -579   578   -21    25  -567   568 u=063  imp:n=1
06714  16  0.7744373E-01 -579   578   -26    18  -567   568 u=063  imp:n=1
06715  17  0.6733980E-01 -579   580   -25    26  -567   568 u=063  imp:n=1
06716  17  0.6733980E-01 -581   578   -25    26  -567   568 u=063  imp:n=1
06717  18  0.4487970E-01 -580   581   -25    26  -567   568 u=063  imp:n=1
06718  19  0.7776510E-01 -583   582   -21    18  -565   567 u=063  imp:n=1
06719  19  0.7776510E-01 -583   582   -21    18  -571   572 u=063  imp:n=1
06720  20  0.7523151E-01 -583   582   -21    25  -567   571 u=063  imp:n=1
06721  20  0.7523151E-01 -583   582   -26    18  -567   571 u=063  imp:n=1
06722  21  0.6542969E-01 -583   584   -25    26  -567   571 u=063  imp:n=1
06723  21  0.6542969E-01 -585   582   -25    26  -567   571 u=063  imp:n=1
06724  22  0.4487471E-01 -584   585   -25    26  -567   571 u=063  imp:n=1
06725  19  0.7776510E-01 -583   582   -21    18  -572   575 u=063  imp:n=1
06726  19  0.7776510E-01 -583   582   -21    18  -576   577 u=063  imp:n=1
06727  20  0.7523151E-01 -583   582   -21    25  -575   576 u=063  imp:n=1
06728  20  0.7523151E-01 -583   582   -26    18  -575   576 u=063  imp:n=1
06729  21  0.6542969E-01 -583   584   -25    26  -575   576 u=063  imp:n=1
06730  21  0.6542969E-01 -585   582   -25    26  -575   576 u=063  imp:n=1
06731  22  0.4487471E-01 -584   585   -25    26  -575   576 u=063  imp:n=1
06732  62  0.8630075E-01  -47    46   -48    18  -565   770 u=063  imp:n=1
06733  63  0.3112637E-01  -47    46   -48    18  -771   667 u=063  imp:n=1
06734  64  0.7416011E-01  -47    46   -48   251  -770   771 u=063  imp:n=1
06735  64  0.7416011E-01  -47    46  -252    18  -770   771 u=063  imp:n=1
06736  65  0.7056425E-01  -47   415  -251   252  -770   771 u=063  imp:n=1
06737  65  0.7056425E-01 -414    46  -251   252  -770   771 u=063  imp:n=1
06738   0                -415   414  -251   252  -770   771 u=063 imp:n=1
06739  60  0.6601119E-01  -47    46  -342   341  -667   586 u=063  imp:n=1
06740  60  0.6601119E-01  -47    46   -48   344  -667   586 u=063  imp:n=1
06741  61  0.6601310E-01  -47    46  -344   342  -774   586 u=063  imp:n=1
06742  61  0.6601310E-01  -47    46  -344   342  -667   775 u=063  imp:n=1
06743   0                 -47    46  -344   342  -775   774 u=063 imp:n=1
06744  24  0.1232187E+00  -47    46   -48    18  -586   587 u=063  imp:n=1
06745  19  0.7776510E-01  -71   588   -21    18  -565   567 u=063  imp:n=1
06746  19  0.7776510E-01  -71   588   -21    18  -571   572 u=063  imp:n=1
```

```
06747  20  0.7523151E-01   -71   588   -21    25  -567   571 u=063  imp:n=1
06748  20  0.7523151E-01   -71   588   -26    18  -567   571 u=063  imp:n=1
06749  21  0.6542969E-01   -71   589   -25    26  -567   571 u=063  imp:n=1
06750  21  0.6542969E-01  -590   588   -25    26  -567   571 u=063  imp:n=1
06751  22  0.4487471E-01  -589   590   -25    26  -567   571 u=063  imp:n=1
06752  19  0.7776510E-01   -71   588   -21    18  -572   575 u=063  imp:n=1
06753  19  0.7776510E-01   -71   588   -21    18  -576   577 u=063  imp:n=1
06754  20  0.7523151E-01   -71   588   -21    25  -575   576 u=063  imp:n=1
06755  20  0.7523151E-01   -71   588   -26    18  -575   576 u=063  imp:n=1
06756  21  0.6542969E-01   -71   589   -25    26  -575   576 u=063  imp:n=1
06757  21  0.6542969E-01  -590   588   -25    26  -575   576 u=063  imp:n=1
06758  22  0.4487471E-01  -589   590   -25    26  -575   576 u=063  imp:n=1
06759  15  0.8003452E-01  -592   591   -21    18  -565   567 u=063  imp:n=1
06760  15  0.8003452E-01  -592   591   -21    18  -568   569 u=063  imp:n=1
06761  16  0.7744373E-01  -592   591   -21    25  -567   568 u=063  imp:n=1
06762  16  0.7744373E-01  -592   591   -26    18  -567   568 u=063  imp:n=1
06763  17  0.6733980E-01  -592   593   -25    26  -567   568 u=063  imp:n=1
06764  17  0.6733980E-01  -594   591   -25    26  -567   568 u=063  imp:n=1
06765  18  0.4487970E-01  -593   594   -25    26  -567   568 u=063  imp:n=1
06766  11  0.7961518E-01  -596   595   -21    18  -565   567 u=063  imp:n=1
06767  11  0.7961518E-01  -596   595   -21    18  -571   572 u=063  imp:n=1
06768  12  0.7714468E-01  -596   595   -21    25  -567   571 u=063  imp:n=1
06769  12  0.7714468E-01  -596   595   -26    18  -567   571 u=063  imp:n=1
06770  13  0.6712964E-01  -596   597   -25    26  -567   571 u=063  imp:n=1
06771  13  0.6712964E-01  -598   595   -25    26  -567   571 u=063  imp:n=1
06772  14  0.4579853E-01  -597   598   -25    26  -567   571 u=063  imp:n=1
06773  11  0.7961518E-01  -596   595   -21    18  -572   575 u=063  imp:n=1
06774  11  0.7961518E-01  -596   595   -21    18  -576   577 u=063  imp:n=1
06775  12  0.7714468E-01  -596   595   -21    25  -575   576 u=063  imp:n=1
06776  12  0.7714468E-01  -596   595   -26    18  -575   576 u=063  imp:n=1
06777  13  0.6712964E-01  -596   597   -25    26  -575   576 u=063  imp:n=1
06778  13  0.6712964E-01  -598   595   -25    26  -575   576 u=063  imp:n=1
06779  14  0.4579853E-01  -597   598   -25    26  -575   576 u=063  imp:n=1
06780   7  0.8235419E-01   -20    17   -21    18  -565   567 u=063  imp:n=1
06781   7  0.8235419E-01   -20    17   -21    18  -568   569 u=063  imp:n=1
06782   8  0.7986135E-01   -20    17   -21    25  -567   568 u=063  imp:n=1
06783   8  0.7986135E-01   -20    17   -26    18  -567   568 u=063  imp:n=1
06784   9  0.6943934E-01   -20    28   -25    26  -567   568 u=063  imp:n=1
06785   9  0.6943934E-01   -27    17   -25    26  -567   568 u=063  imp:n=1
06786  10  0.4603587E-01   -28    27   -25    26  -567   568 u=063  imp:n=1
06787  25  0.1201037E+00   -19   599   -48    18  -569   600 u=063  imp:n=1
06788  26  0.7164290E-01   -63    73   -48    18  -565   601 u=063  imp:n=1
06789  27  0.1212447E+00   -73    72   -48    18  -577   602 u=063  imp:n=1
06790  28  0.1187656E+00  -570   579   -48    18  -565   586 u=063  imp:n=1
06791  29  0.1183522E+00   -72    51   -48    18  -577   602 u=063  imp:n=1
06792  30  0.5464445E-01  -578   583   -48    18  -565   586 u=063  imp:n=1
06793  26  0.7164290E-01   -51    47   -48    18  -565   601 u=063  imp:n=1
06794  26  0.7164290E-01   -46    71   -48    18  -565   601 u=063  imp:n=1
06795  29  0.1183522E+00   -71    69   -48    18  -577   602 u=063  imp:n=1
06796  30  0.5464445E-01  -588   592   -48    18  -565   586 u=063  imp:n=1
06797  27  0.1212447E+00   -69    29   -48    18  -577   602 u=063  imp:n=1
06798  28  0.1187656E+00  -591   596   -48    18  -565   586 u=063  imp:n=1
06799  26  0.7164290E-01   -29    20   -48    18  -565   601 u=063  imp:n=1
06800  25  0.1201037E+00   -20   603   -48    18  -569   600 u=063  imp:n=1
06801  31  0.2714513E-01   -19   604   -48    18  -602   605 u=063  imp:n=1
06802  32  0.8823003E-01   -75    17   -48    18  -605   606 u=063  imp:n=1
06803  33  0.8829426E-01   -78    17   -48    18  -606   607 u=063  imp:n=1
06804  33  0.8829426E-01   -75    80   -48    18  -606   607 u=063  imp:n=1
06805   0                  -12     9   -14     4  -563   564 u=063 imp:n=1
06806   0                  -10    13   -14     4  -563   564 u=063 imp:n=1
06807   0                  -10     9    -7    14   -81   564 u=063 imp:n=1
06808   0                 -595    29   -48    18  -563   571 u=063 imp:n=1
06809   0                 -582    51   -48    18  -563   571 u=063 imp:n=1
06810   0                  -63    73   -21    48  -565   567 u=063 imp:n=1
06811   0                 -570   579   -21    48  -565   567 u=063 imp:n=1
06812   0                 -595    20   -25    48  -567   569 u=063 imp:n=1
06813   0                 -591   596   -25    48  -567   569 u=063 imp:n=1
06814   0                 -588   592   -25    48  -567   569 u=063 imp:n=1
06815   0                 -582    71   -25    48  -567   576 u=063 imp:n=1
06816   0                 -578   583   -21    48  -565   567 u=063 imp:n=1
06817   0                 -582    71   -21    48  -565   567 u=063 imp:n=1
06818   0                 -578   583   -25    48  -567   586 u=063 imp:n=1
06819   0                 -570   579   -25    48  -567   586 u=063 imp:n=1
06820   0                  -63    73   -25    48  -567   569 u=063 imp:n=1
06821   0                 -595    29   -48    26  -575   667 u=063 imp:n=1
06822   0                 -582    51   -48    26  -575   667 u=063 imp:n=1
```

```
06823   0                -588   592   -21    48  -565   567 u=063 imp:n=1
06824   0                -591   596   -21    48  -565   567 u=063 imp:n=1
06825   0                -595    20   -21    48  -565   567 u=063 imp:n=1
06826   0                -582    51   -48    18  -565   567 u=063 imp:n=1
06827   0                -595    29   -48    18  -565   567 u=063 imp:n=1
06828   0                -582    51   -48    18  -567   563 u=063 imp:n=1
06829   0                -595    29   -48    18  -567   563 u=063 imp:n=1
06830   0                 -10    13   -14     4   -81   563 u=063 imp:n=1
06831   0                 -12     9   -14     4   -81   563 u=063 imp:n=1
06832   0                -570   579   -25    18  -568   569 u=063 imp:n=1
06833   0                -578   583   -25    18  -568   569 u=063 imp:n=1
06834   0                -595    29   -48    18  -586   568 u=063 imp:n=1
06835   0                -591   596   -48    18  -586   568 u=063 imp:n=1
06836   0                -588   592   -48    18  -586   568 u=063 imp:n=1
06837   0                -582    51   -48    18  -586   568 u=063 imp:n=1
06838   0                -595    29  -342    18  -667   586 u=063 imp:n=1
06839   0                 -47    46  -341    18  -667   586 u=063 imp:n=1
06840   0                -582    51  -342    18  -667   586 u=063 imp:n=1
06841   0                -595    29   -48   342  -667   586 u=063 imp:n=1
06842   0                -582    51   -48   342  -667   586 u=063 imp:n=1
06843   0                -582    51   -48    18  -568   569 u=063 imp:n=1
06844   0                -588   592   -48    18  -568   569 u=063 imp:n=1
06845   0                -591   596   -48    18  -568   569 u=063 imp:n=1
06846   0                -595    29   -48    18  -568   569 u=063 imp:n=1
06847   0                -582    71   -21    48  -576   577 u=063 imp:n=1
06848   0                -588   596   -21    18  -576   577 u=063 imp:n=1
06849   0                 -51    47   -48    18  -601   587 u=063 imp:n=1
06850   0                 -46    71   -48    18  -601   587 u=063 imp:n=1
06851   0                -599    73   -48    18  -601   600 u=063 imp:n=1
06852   0                 -29    20   -48    18  -601   600 u=063 imp:n=1
06853   0                 -19    73   -48    18  -600   602 u=063 imp:n=1
06854   0                 -51    71   -48    18  -587   602 u=063 imp:n=1
06855   0                 -29    17   -48    18  -600   602 u=063 imp:n=1
06856   0                -604    17   -48    18  -602   605 u=063 imp:n=1
06857   0                 -19    75   -48    18  -605   607 u=063 imp:n=1
06858   0                 -80    78   -48    18  -606   607 u=063 imp:n=1
06859   0                 -19    17   -14    48  -577   607 u=063 imp:n=1
06860   0                 -19    17   -14    18  -607   566 u=063 imp:n=1
06861   0                -578   583   -25    18  -586   568 u=063 imp:n=1
06862   0                -599    63   -48    18  -569   601 u=063 imp:n=1
06863   0                -570   579   -25    18  -586   568 u=063 imp:n=1
06864   0                 -19    73   -21    48  -569   577 u=063 imp:n=1
06865   0                -570   583   -21    18  -569   577 u=063 imp:n=1
06866   0                -595    29   -48    18  -572   575 u=063 imp:n=1
06867   0                -582    51   -48    18  -572   575 u=063 imp:n=1
06868   0                -582    51   -48    18  -569   577 u=063 imp:n=1
06869   0                -595    29   -48    18  -569   577 u=063 imp:n=1
06870   0                -603    17   -48    18  -569   600 u=063 imp:n=1
06871   0                -588   596   -21    18  -569   576 u=063 imp:n=1
06872   0                -595    17   -21    48  -569   577 u=063 imp:n=1
06873   0                 -63    73   -21    25  -567   569 u=063 imp:n=1
06874   0                -570   579   -21    25  -567   569 u=063 imp:n=1
06875   0                -578   583   -21    25  -567   569 u=063 imp:n=1
06876   0                -582    71   -21    25  -567   576 u=063 imp:n=1
06877   0                -588   592   -21    25  -567   569 u=063 imp:n=1
06878   0                -591   596   -21    25  -567   569 u=063 imp:n=1
06879   0                -595    29   -48    18  -571   572 u=063 imp:n=1
06880   0                -582    51   -48    18  -571   572 u=063 imp:n=1
06881   0                -595    20   -21    25  -567   569 u=063 imp:n=1
06882   0                 -19    17   -14    21  -565   577 u=063 imp:n=1
06883   0                -582    51   -26    18  -575   667 u=063 imp:n=1
06884   0                -595    29   -26    18  -575   667 u=063 imp:n=1
06885   3  0.8540120E-01   -2     1    -4     3  -564     5 u=063  imp:n=1
06886   3  0.8540120E-01   -2     1    -8     7  -564     5 u=063  imp:n=1
06887   3  0.8540120E-01   -9     1    -7     4  -564     5 u=063  imp:n=1
06888   3  0.8540120E-01   -2    10    -7     4  -564     5 u=063  imp:n=1
06889  34  0.1035093E+00  -10   608   -83     4  -609   610 u=063  imp:n=1
06890   0                 -10     9    -7     4  -564   609 u=063 imp:n=1
06891   0                 -10     9    -7     4  -610     5 u=063 imp:n=1
06892   0                 -10     9    -7    83  -609   610 u=063 imp:n=1
06893   0                -608     9   -83     4  -609   610 u=063 imp:n=1
06894   1  0.3030146E-01   -2     1    -4     3   -81   563 u=064  imp:n=1
06895   1  0.3030146E-01   -2     1    -8     7   -81   563 u=064  imp:n=1
06896   2  0.7570860E-01   -9     1    -7     4   -81   563 u=064  imp:n=1
06897   2  0.7570860E-01   -2    10    -7     4   -81   563 u=064  imp:n=1
06898   3  0.8540120E-01   -2     1    -4     3  -563   564 u=064  imp:n=1
```

```
06899   3  0.8540120E-01    -2     1    -8     7  -563   564 u=064  imp:n=1
06900   3  0.8540120E-01    -9     1    -7     4  -563   564 u=064  imp:n=1
06901   3  0.8540120E-01    -2    10    -7     4  -563   564 u=064  imp:n=1
06902   4  0.7332760E-01   -13    12   -14     4   -81   565 u=064  imp:n=1
06903   5  0.3966184E-01   -13    12   -14     4  -566   564 u=064  imp:n=1
06904   6  0.3747366E-01   -13    19   -14    18  -565   566 u=064  imp:n=1
06905   6  0.3747366E-01   -17    12   -14    18  -565   566 u=064  imp:n=1
06906   6  0.3747366E-01   -13    12   -18     4  -565   566 u=064  imp:n=1
06907   7  0.8235419E-01  -441   462   -21    18  -565   567 u=064  imp:n=1
06908   7  0.8235419E-01  -441   462   -21    18  -568   569 u=064  imp:n=1
06909   8  0.7986135E-01  -441   462   -21    25  -567   568 u=064  imp:n=1
06910   8  0.7986135E-01  -441   462   -26    18  -567   568 u=064  imp:n=1
06911   9  0.6943934E-01  -441   464   -25    26  -567   568 u=064  imp:n=1
06912   9  0.6943934E-01  -463   462   -25    26  -567   568 u=064  imp:n=1
06913  10  0.4603587E-01  -464   463   -25    26  -567   568 u=064  imp:n=1
06914  25  0.1201037E+00  -441   819   -48    18  -569   600 u=064  imp:n=1
06915  26  0.7164290E-01  -462   457   -48    18  -565   601 u=064  imp:n=1
06916  27  0.1212447E+00  -457   453   -48    18  -569   600 u=064  imp:n=1
06917   7  0.8235419E-01  -457   820   -21    18  -565   567 u=064  imp:n=1
06918   7  0.8235419E-01  -457   820   -21    18  -568   569 u=064  imp:n=1
06919   8  0.7986135E-01  -457   820   -21    25  -567   568 u=064  imp:n=1
06920   8  0.7986135E-01  -457   820   -26    18  -567   568 u=064  imp:n=1
06921   9  0.6943934E-01  -457   821   -25    26  -567   568 u=064  imp:n=1
06922   9  0.6943934E-01  -822   820   -25    26  -567   568 u=064  imp:n=1
06923  10  0.4603587E-01  -821   822   -25    26  -567   568 u=064  imp:n=1
06924   7  0.8235419E-01  -824   823   -21    18  -565   567 u=064  imp:n=1
06925   7  0.8235419E-01  -824   823   -21    18  -568   569 u=064  imp:n=1
06926   8  0.7986135E-01  -824   823   -21    25  -567   568 u=064  imp:n=1
06927   8  0.7986135E-01  -824   823   -26    18  -567   568 u=064  imp:n=1
06928   9  0.6943934E-01  -824   825   -25    26  -567   568 u=064  imp:n=1
06929   9  0.6943934E-01  -826   823   -25    26  -567   568 u=064  imp:n=1
06930  10  0.4603587E-01  -825   826   -25    26  -567   568 u=064  imp:n=1
06931  36  0.6435380E-01  -828   827   -48    18  -565   667 u=064  imp:n=1
06932  37  0.6435380E-01  -828   827   -48    18  -667   586 u=064  imp:n=1
06933  38  0.8323048E-01  -453   452   -48    18  -668   669 u=064  imp:n=1
06934  85  0.1187737E+00  -451   448   -48    18  -586   587 u=064  imp:n=1
06935  86  0.8236775E-01  -448   447   -48    18  -586   829 u=064  imp:n=1
06936  87  0.2195034E-01  -448   447   -48    18  -830   587 u=064  imp:n=1
06937  88  0.7077679E-01  -448   447   -48   251  -829   830 u=064  imp:n=1
06938  88  0.7077679E-01  -448   447  -252    18  -829   830 u=064  imp:n=1
06939  89  0.6625060E-01  -448   450  -251   252  -829   830 u=064  imp:n=1
06940  89  0.6625060E-01  -449   447  -251   252  -829   830 u=064  imp:n=1
06941   0                 -450   449  -251   252  -829   830 u=064 imp:n=1
06942  40  0.5178530E-01  -447   446   -48    18  -670   669 u=064  imp:n=1
06943  48  0.1333519E+00  -446   416   -48    18  -667   586 u=064  imp:n=1
06944  24  0.1232187E+00  -446   416   -48    18  -586   587 u=064  imp:n=1
06945  28  0.1187656E+00  -820   824   -48    18  -565   710 u=064  imp:n=1
06946  28  0.1187656E+00  -820   824   -48    18  -710   586 u=064  imp:n=1
06947  41  0.5279270E-01  -827   831   -48    18  -565   668 u=064  imp:n=1
06948  42  0.5392130E-01  -452   451   -48    18  -668   669 u=064  imp:n=1
06949  23  0.1232400E+00  -831   832   -48    18  -565   710 u=064  imp:n=1
06950  23  0.1232400E+00  -831   832   -48    18  -710   586 u=064  imp:n=1
06951  28  0.1187656E+00  -832   833   -48    18  -565   710 u=064  imp:n=1
06952  28  0.1187656E+00  -832   833   -48    18  -710   586 u=064  imp:n=1
06953  23  0.1232400E+00  -833   834   -48    18  -565   710 u=064  imp:n=1
06954  23  0.1232400E+00  -833   834   -48    18  -710   586 u=064  imp:n=1
06955  41  0.5279270E-01  -447   446   -48    18  -565   668 u=064  imp:n=1
06956  42  0.5392130E-01  -447   446   -48    18  -668   670 u=064  imp:n=1
06957  49  0.1333121E+00  -446   416   -48    18  -565   692 u=064  imp:n=1
06958  49  0.1333121E+00  -446   416   -48    18  -692   667 u=064  imp:n=1
06959  31  0.2714513E-01   -19   604   -48    18  -669   672 u=064  imp:n=1
06960  32  0.8823003E-01   -75    17   -48    18  -672   673 u=064  imp:n=1
06961  33  0.8829426E-01   -78    17   -48    18  -673   674 u=064  imp:n=1
06962  33  0.8829426E-01   -75    80   -48    18  -673   674 u=064  imp:n=1
06963   0                  -12     9   -14     4  -563   564 u=064 imp:n=1
06964   0                  -10    13   -14     4  -563   564 u=064 imp:n=1
06965   0                  -10     9    -7    14   -81   564 u=064 imp:n=1
06966   0                 -823    17   -21    48  -563   569 u=064 imp:n=1
06967   0                 -820   824   -21    48  -563   569 u=064 imp:n=1
06968   0                 -462   457   -21    48  -563   569 u=064 imp:n=1
06969   0                 -416    17   -48    26  -567   568 u=064 imp:n=1
06970   0                 -823   828   -48    18  -565   567 u=064 imp:n=1
06971   0                 -834   447   -48    18  -565   567 u=064 imp:n=1
06972   0                 -416    17   -48    18  -565   567 u=064 imp:n=1
06973   0                 -831   451   -48    18  -586   668 u=064 imp:n=1
06974   0                 -823   827   -48    18  -586   569 u=064 imp:n=1
```

```
06975   0                    -19   441   -21    18  -565   563 u=064 imp:n=1
06976   0                   -834   447   -48    26  -567   586 u=064 imp:n=1
06977   0                   -823   828   -48    26  -567   586 u=064 imp:n=1
06978   0                   -462   457   -21    48  -565   563 u=064 imp:n=1
06979   0                   -820   824   -21    48  -565   563 u=064 imp:n=1
06980   0                   -823    17   -21    48  -565   563 u=064 imp:n=1
06981   0                    -10    13   -14     4   -81   563 u=064 imp:n=1
06982   0                    -12     9   -14     4   -81   563 u=064 imp:n=1
06983   0                   -820   824   -48    18  -586   569 u=064 imp:n=1
06984   0                    -19   441   -21    18  -563   569 u=064 imp:n=1
06985   0                   -416    17   -26    18  -567   568 u=064 imp:n=1
06986   0                    -19   441   -48    18  -569   600 u=064 imp:n=1
06987   0                   -819   462   -48    18  -569   601 u=064 imp:n=1
06988   0                   -453   827   -48    18  -569   668 u=064 imp:n=1
06989   0                   -819   457   -48    18  -601   600 u=064 imp:n=1
06990   0                   -834   447   -26    18  -567   586 u=064 imp:n=1
06991   0                   -823   828   -26    18  -567   586 u=064 imp:n=1
06992   0                   -416    17   -48    18  -830   587 u=064 imp:n=1
06993   0                   -416    17   -48   251  -568   830 u=064 imp:n=1
06994   0                   -416    17  -252    18  -568   830 u=064 imp:n=1
06995   0                   -416    17  -251   252  -568   830 u=064 imp:n=1
06996   0                    -19   453   -48    18  -600   669 u=064 imp:n=1
06997   0                   -451   447   -48    18  -587   669 u=064 imp:n=1
06998   0                   -446    17   -48    18  -587   669 u=064 imp:n=1
06999   0                   -604    17   -48    18  -669   672 u=064 imp:n=1
07000   0                    -19    17   -14    21  -565   569 u=064 imp:n=1
07001   0                    -19    75   -48    18  -672   674 u=064 imp:n=1
07002   0                    -80    78   -48    18  -673   674 u=064 imp:n=1
07003   0                    -19    17   -14    48  -569   674 u=064 imp:n=1
07004   0                    -19    17   -14    18  -674   566 u=064 imp:n=1
07005   3  0.8540120E-01      -2     1    -4     3  -564     5 u=064  imp:n=1
07006   3  0.8540120E-01      -2     1    -8     7  -564     5 u=064  imp:n=1
07007   3  0.8540120E-01      -9     1    -7     4  -564     5 u=064  imp:n=1
07008   3  0.8540120E-01      -2    10    -7     4  -564     5 u=064  imp:n=1
07009  34  0.1035093E+00     -10   608   -83     4  -609   610 u=064  imp:n=1
07010   0                    -10     9    -7     4  -564   609 u=064 imp:n=1
07011   0                    -10     9    -7     4  -610     5 u=064 imp:n=1
07012   0                    -10     9    -7    83  -609   610 u=064 imp:n=1
07013   0                   -608     9   -83     4  -609   610 u=064 imp:n=1
07014   1  0.3030146E-01      -2     1    -4     3   -81   563 u=065  imp:n=1
07015   1  0.3030146E-01      -2     1    -8     7   -81   563 u=065  imp:n=1
07016   2  0.7570860E-01      -9     1    -7     4   -81   563 u=065  imp:n=1
07017   2  0.7570860E-01      -2    10    -7     4   -81   563 u=065  imp:n=1
07018   3  0.8540120E-01      -2     1    -4     3  -563   564 u=065  imp:n=1
07019   3  0.8540120E-01      -2     1    -8     7  -563   564 u=065  imp:n=1
07020   3  0.8540120E-01      -9     1    -7     4  -563   564 u=065  imp:n=1
07021   3  0.8540120E-01      -2    10    -7     4  -563   564 u=065  imp:n=1
07022   4  0.7332760E-01     -13    12   -14     4   -81   565 u=065  imp:n=1
07023   5  0.3966184E-01     -13    12   -14     4  -566   564 u=065  imp:n=1
07024   6  0.3747366E-01     -13    19   -14    18  -565   566 u=065  imp:n=1
07025   6  0.3747366E-01     -17    12   -14    18  -565   566 u=065  imp:n=1
07026   6  0.3747366E-01     -13    12   -18     4  -565   566 u=065  imp:n=1
07027  48  0.1333519E+00    -441   440   -48    18  -667   586 u=065  imp:n=1
07028  24  0.1232187E+00    -441   440   -48    18  -586   587 u=065  imp:n=1
07029  40  0.5178530E-01    -440   435   -48    18  -670   669 u=065  imp:n=1
07030  86  0.8236775E-01    -435   434   -48    18  -586   829 u=065  imp:n=1
07031  87  0.2195034E-01    -435   434   -48    18  -830   587 u=065  imp:n=1
07032  88  0.7077679E-01    -435   434   -48   251  -829   830 u=065  imp:n=1
07033  88  0.7077679E-01    -435   434  -252    18  -829   830 u=065  imp:n=1
07034  89  0.6625060E-01    -435   439  -251   252  -829   830 u=065  imp:n=1
07035  89  0.6625060E-01    -438   434  -251   252  -829   830 u=065  imp:n=1
07036   0                   -439   438  -251   252  -829   830 u=065 imp:n=1
07037  85  0.1187737E+00    -434   433   -48    18  -586   587 u=065  imp:n=1
07038  36  0.6435380E-01    -432   422   -48    18  -565   667 u=065  imp:n=1
07039  37  0.6435380E-01    -432   422   -48    18  -667   586 u=065  imp:n=1
07040  38  0.8323048E-01    -432   422   -48    18  -668   669 u=065  imp:n=1
07041   7  0.8235419E-01    -422   835   -21    18  -565   567 u=065  imp:n=1
07042   7  0.8235419E-01    -422   835   -21    18  -568   569 u=065  imp:n=1
07043   8  0.7986135E-01    -422   835   -21    25  -567   568 u=065  imp:n=1
07044   8  0.7986135E-01    -422   835   -26    18  -567   568 u=065  imp:n=1
07045   9  0.6943934E-01    -422   836   -25    26  -567   568 u=065  imp:n=1
07046   9  0.6943934E-01    -837   835   -25    26  -567   568 u=065  imp:n=1
07047  10  0.4603587E-01    -836   837   -25    26  -567   568 u=065  imp:n=1
07048  27  0.1212447E+00    -422   421   -48    18  -569   600 u=065  imp:n=1
07049   7  0.8235419E-01    -839   838   -21    18  -565   567 u=065  imp:n=1
07050   7  0.8235419E-01    -839   838   -21    18  -568   569 u=065  imp:n=1
```

```
07051   8  0.7986135E-01  -839   838   -21    25  -567   568 u=065  imp:n=1
07052   8  0.7986135E-01  -839   838   -26    18  -567   568 u=065  imp:n=1
07053   9  0.6943934E-01  -839   840   -25    26  -567   568 u=065  imp:n=1
07054   9  0.6943934E-01  -841   838   -25    26  -567   568 u=065  imp:n=1
07055  10  0.4603587E-01  -840   841   -25    26  -567   568 u=065  imp:n=1
07056  26  0.7164290E-01  -421   417   -48    18  -565   601 u=065  imp:n=1
07057   7  0.8235419E-01  -417   416   -21    18  -565   567 u=065  imp:n=1
07058   7  0.8235419E-01  -417   416   -21    18  -568   569 u=065  imp:n=1
07059   8  0.7986135E-01  -417   416   -21    25  -567   568 u=065  imp:n=1
07060   8  0.7986135E-01  -417   416   -26    18  -567   568 u=065  imp:n=1
07061   9  0.6943934E-01  -417   419   -25    26  -567   568 u=065  imp:n=1
07062   9  0.6943934E-01  -418   416   -25    26  -567   568 u=065  imp:n=1
07063  10  0.4603587E-01  -419   418   -25    26  -567   568 u=065  imp:n=1
07064  25  0.1201037E+00  -417   842   -48    18  -569   600 u=065  imp:n=1
07065  49  0.1333121E+00  -441   440   -48    18  -565   692 u=065  imp:n=1
07066  49  0.1333121E+00  -441   440   -48    18  -692   667 u=065  imp:n=1
07067  41  0.5279270E-01  -440   435   -48    18  -565   668 u=065  imp:n=1
07068  42  0.5392130E-01  -440   435   -48    18  -668   670 u=065  imp:n=1
07069  23  0.1232400E+00  -435   473   -48    18  -565   710 u=065  imp:n=1
07070  23  0.1232400E+00  -435   473   -48    18  -710   586 u=065  imp:n=1
07071  28  0.1187656E+00  -473   472   -48    18  -565   710 u=065  imp:n=1
07072  28  0.1187656E+00  -473   472   -48    18  -710   586 u=065  imp:n=1
07073  23  0.1232400E+00  -472   433   -48    18  -565   710 u=065  imp:n=1
07074  23  0.1232400E+00  -472   433   -48    18  -710   586 u=065  imp:n=1
07075  41  0.5279270E-01  -433   432   -48    18  -565   668 u=065  imp:n=1
07076  42  0.5392130E-01  -433   432   -48    18  -668   669 u=065  imp:n=1
07077  28  0.1187656E+00  -835   839   -48    18  -565   710 u=065  imp:n=1
07078  28  0.1187656E+00  -835   839   -48    18  -710   586 u=065  imp:n=1
07079  31  0.2714513E-01   -19   604   -48    18  -669   672 u=065  imp:n=1
07080  32  0.8823003E-01   -75    17   -48    18  -672   673 u=065  imp:n=1
07081  33  0.8829426E-01   -78    17   -48    18  -673   674 u=065  imp:n=1
07082  33  0.8829426E-01   -75    80   -48    18  -673   674 u=065  imp:n=1
07083   0                  -12     9   -14     4  -563   564 u=065 imp:n=1
07084   0                  -10    13   -14     4  -563   564 u=065 imp:n=1
07085   0                  -10     9    -7    14   -81   564 u=065 imp:n=1
07086   0                 -416    17   -21    18  -563   667 u=065 imp:n=1
07087   0                 -838   417   -21    48  -563   667 u=065 imp:n=1
07088   0                 -835   839   -21    48  -563   667 u=065 imp:n=1
07089   0                  -19   422   -21    48  -563   667 u=065 imp:n=1
07090   0                  -19    17   -14    21  -565   569 u=065 imp:n=1
07091   0                 -838   421   -48    18  -565   563 u=065 imp:n=1
07092   0                 -416    17   -48    18  -565   563 u=065 imp:n=1
07093   0                  -19   422   -21    48  -565   563 u=065 imp:n=1
07094   0                 -835   839   -21    48  -565   563 u=065 imp:n=1
07095   0                 -838   417   -21    48  -565   563 u=065 imp:n=1
07096   0                 -838   421   -48    18  -563   667 u=065 imp:n=1
07097   0                 -416    17   -21    48  -565   563 u=065 imp:n=1
07098   0                  -10    13   -14     4   -81   563 u=065 imp:n=1
07099   0                  -19   441   -48    18  -565   587 u=065 imp:n=1
07100   0                  -12     9   -14     4   -81   563 u=065 imp:n=1
07101   0                  -19    17   -14    18  -674   566 u=065 imp:n=1
07102   0                  -19    17   -14    48  -569   674 u=065 imp:n=1
07103   0                  -80    78   -48    18  -673   674 u=065 imp:n=1
07104   0                  -19    75   -48    18  -672   674 u=065 imp:n=1
07105   0                 -838   421   -48    18  -667   586 u=065 imp:n=1
07106   0                  -19   422   -21    48  -667   586 u=065 imp:n=1
07107   0                 -604    17   -48    18  -669   672 u=065 imp:n=1
07108   0                 -835   839   -21    48  -667   586 u=065 imp:n=1
07109   0                 -422    17   -48    18  -600   669 u=065 imp:n=1
07110   0                 -842    17   -48    18  -830   600 u=065 imp:n=1
07111   0                 -421   417   -48    18  -830   600 u=065 imp:n=1
07112   0                 -435   433   -48    18  -587   669 u=065 imp:n=1
07113   0                  -19   440   -48    18  -587   669 u=065 imp:n=1
07114   0                 -416    17   -21    48  -586   569 u=065 imp:n=1
07115   0                 -838   417   -21    48  -586   569 u=065 imp:n=1
07116   0                 -835   839   -21    48  -586   569 u=065 imp:n=1
07117   0                  -19   422   -21    48  -586   569 u=065 imp:n=1
07118   0                 -838   417   -21    48  -667   586 u=065 imp:n=1
07119   0                 -416    17   -21    18  -667   586 u=065 imp:n=1
07120   0                 -421   417   -48    18  -670   830 u=065 imp:n=1
07121   0                 -432   422   -48    18  -586   829 u=065 imp:n=1
07122   0                 -835   839   -48    18  -586   829 u=065 imp:n=1
07123   0                 -838   421   -48    18  -586   829 u=065 imp:n=1
07124   0                 -416    17   -48    18  -586   829 u=065 imp:n=1
07125   0                 -842    17   -48   251  -569   830 u=065 imp:n=1
07126   0                 -432   422   -48   251  -829   668 u=065 imp:n=1
```

```
07127   0                  -835   839   -48   251  -829   569 u=065 imp:n=1
07128   0                  -838   421   -48   251  -829   569 u=065 imp:n=1
07129   0                  -416    17  -251   252  -829   569 u=065 imp:n=1
07130   0                  -838   421  -251   252  -829   569 u=065 imp:n=1
07131   0                  -835   839  -251   252  -829   569 u=065 imp:n=1
07132   0                  -432   422  -251   252  -829   668 u=065 imp:n=1
07133   0                  -842    17  -251   252  -569   830 u=065 imp:n=1
07134   0                  -416    17   -48   251  -829   569 u=065 imp:n=1
07135   0                  -842    17  -252    18  -569   830 u=065 imp:n=1
07136   0                  -432   422  -252    18  -829   668 u=065 imp:n=1
07137   0                  -835   839  -252    18  -829   569 u=065 imp:n=1
07138   0                  -838   421  -252    18  -829   569 u=065 imp:n=1
07139   0                  -416    17  -252    18  -829   569 u=065 imp:n=1
07140   0                  -421   417   -48    18  -601   670 u=065 imp:n=1
07141   3  0.8540120E-01     -2     1    -4     3  -564     5 u=065  imp:n=1
07142   3  0.8540120E-01     -2     1    -8     7  -564     5 u=065  imp:n=1
07143   3  0.8540120E-01     -9     1    -7     4  -564     5 u=065  imp:n=1
07144   3  0.8540120E-01     -2    10    -7     4  -564     5 u=065  imp:n=1
07145  34  0.1035093E+00    -10   608   -83     4  -609   610 u=065  imp:n=1
07146   0                   -10     9    -7     4  -564   609 u=065 imp:n=1
07147   0                   -10     9    -7     4  -610     5 u=065 imp:n=1
07148   0                   -10     9    -7    83  -609   610 u=065 imp:n=1
07149   0                  -608     9   -83     4  -609   610 u=065 imp:n=1
07150   1  0.3030146E-01     -2     1    -4     3   -81   563 u=066  imp:n=1
07151   1  0.3030146E-01     -2     1    -8     7   -81   563 u=066  imp:n=1
07152   2  0.7570860E-01     -9     1    -7     4   -81   563 u=066  imp:n=1
07153   2  0.7570860E-01     -2    10    -7     4   -81   563 u=066  imp:n=1
07154   3  0.8540120E-01     -2     1    -4     3  -563   564 u=066  imp:n=1
07155   3  0.8540120E-01     -2     1    -8     7  -563   564 u=066  imp:n=1
07156   3  0.8540120E-01     -9     1    -7     4  -563   564 u=066  imp:n=1
07157   3  0.8540120E-01     -2    10    -7     4  -563   564 u=066  imp:n=1
07158   4  0.7332760E-01    -13    12   -14     4   -81   565 u=066  imp:n=1
07159   5  0.3966184E-01    -13    12   -14     4  -566   564 u=066  imp:n=1
07160   6  0.3747366E-01    -13    19   -14    18  -565   566 u=066  imp:n=1
07161   6  0.3747366E-01    -17    12   -14    18  -565   566 u=066  imp:n=1
07162   6  0.3747366E-01    -13    12   -18     4  -565   566 u=066  imp:n=1
07163   7  0.8235419E-01   -441   462   -21    18  -565   567 u=066  imp:n=1
07164   7  0.8235419E-01   -441   462   -21    18  -568   569 u=066  imp:n=1
07165   8  0.7986135E-01   -441   462   -21    25  -567   568 u=066  imp:n=1
07166   8  0.7986135E-01   -441   462   -26    18  -567   568 u=066  imp:n=1
07167   9  0.6943934E-01   -441   464   -25    26  -567   568 u=066  imp:n=1
07168   9  0.6943934E-01   -463   462   -25    26  -567   568 u=066  imp:n=1
07169  10  0.4603587E-01   -464   463   -25    26  -567   568 u=066  imp:n=1
07170  25  0.1201037E+00   -441   819   -48    18  -569   600 u=066  imp:n=1
07171  26  0.7164290E-01   -462   457   -48    18  -565   601 u=066  imp:n=1
07172  27  0.1212447E+00   -457   453   -48    18  -569   600 u=066  imp:n=1
07173   7  0.8235419E-01   -457   820   -21    18  -565   567 u=066  imp:n=1
07174   7  0.8235419E-01   -457   820   -21    18  -568   569 u=066  imp:n=1
07175   8  0.7986135E-01   -457   820   -21    25  -567   568 u=066  imp:n=1
07176   8  0.7986135E-01   -457   820   -26    18  -567   568 u=066  imp:n=1
07177   9  0.6943934E-01   -457   821   -25    26  -567   568 u=066  imp:n=1
07178   9  0.6943934E-01   -822   820   -25    26  -567   568 u=066  imp:n=1
07179  10  0.4603587E-01   -821   822   -25    26  -567   568 u=066  imp:n=1
07180   7  0.8235419E-01   -824   823   -21    18  -565   567 u=066  imp:n=1
07181   7  0.8235419E-01   -824   823   -21    18  -568   569 u=066  imp:n=1
07182   8  0.7986135E-01   -824   823   -21    25  -567   568 u=066  imp:n=1
07183   8  0.7986135E-01   -824   823   -26    18  -567   568 u=066  imp:n=1
07184   9  0.6943934E-01   -824   825   -25    26  -567   568 u=066  imp:n=1
07185   9  0.6943934E-01   -826   823   -25    26  -567   568 u=066  imp:n=1
07186  10  0.4603587E-01   -825   826   -25    26  -567   568 u=066  imp:n=1
07187  36  0.6435380E-01   -440   843   -48    18  -565   667 u=066  imp:n=1
07188  37  0.6435380E-01   -440   843   -48    18  -667   586 u=066  imp:n=1
07189  38  0.8323048E-01   -453   452   -48    18  -668   669 u=066  imp:n=1
07190  86  0.8236775E-01   -473   844   -48    18  -565   770 u=066  imp:n=1
07191  87  0.2195034E-01   -473   844   -48    18  -771   667 u=066  imp:n=1
07192  88  0.7077679E-01   -473   844   -48   251  -770   771 u=066  imp:n=1
07193  88  0.7077679E-01   -473   844  -252    18  -770   771 u=066  imp:n=1
07194  89  0.6625060E-01   -473   845  -251   252  -770   771 u=066  imp:n=1
07195  89  0.6625060E-01   -846   844  -251   252  -770   771 u=066  imp:n=1
07196   0                  -845   846  -251   252  -770   771 u=066 imp:n=1
07197  85  0.1187737E+00   -467   466   -48    18  -586   587 u=066  imp:n=1
07198  40  0.5178530E-01   -447   446   -48    18  -670   669 u=066  imp:n=1
07199  48  0.1333519E+00   -446   416   -48    18  -667   586 u=066  imp:n=1
07200  28  0.1187656E+00   -820   824   -48    18  -565   710 u=066  imp:n=1
07201  28  0.1187656E+00   -820   824   -48    18  -710   586 u=066  imp:n=1
07202  41  0.5279270E-01   -843   847   -48    18  -565   668 u=066  imp:n=1
```

```
07203  42  0.5392130E-01  -452   451   -48    18  -668   669 u=066  imp:n=1
07204  28  0.1187656E+00  -847   473   -48    18  -565   586 u=066  imp:n=1
07205  24  0.1232187E+00  -451   467   -48    18  -586   587 u=066  imp:n=1
07206  24  0.1232187E+00  -466   447   -48    18  -586   587 u=066  imp:n=1
07207  41  0.5279270E-01  -447   446   -48    18  -565   668 u=066  imp:n=1
07208  42  0.5392130E-01  -447   446   -48    18  -668   670 u=066  imp:n=1
07209  49  0.1333121E+00  -446   416   -48    18  -565   692 u=066  imp:n=1
07210  49  0.1333121E+00  -446   416   -48    18  -692   667 u=066  imp:n=1
07211  24  0.1232187E+00  -446   416   -48    18  -586   587 u=066  imp:n=1
07212  31  0.2714513E-01   -19   604   -48    18  -669   672 u=066  imp:n=1
07213  32  0.8823003E-01   -75    17   -48    18  -672   673 u=066  imp:n=1
07214  33  0.8829426E-01   -78    17   -48    18  -673   674 u=066  imp:n=1
07215  33  0.8829426E-01   -75    80   -48    18  -673   674 u=066  imp:n=1
07216   0                  -12     9   -14     4  -563   564 u=066 imp:n=1
07217   0                  -10    13   -14     4  -563   564 u=066 imp:n=1
07218   0                  -10     9    -7    14   -81   564 u=066 imp:n=1
07219   0                 -823    17   -21    48  -563   569 u=066 imp:n=1
07220   0                 -820   824   -21    48  -563   569 u=066 imp:n=1
07221   0                 -462   457   -21    48  -563   569 u=066 imp:n=1
07222   0                 -416    17   -48    26  -771   568 u=066 imp:n=1
07223   0                 -847   451   -48    18  -586   668 u=066 imp:n=1
07224   0                 -823   843   -48    18  -586   569 u=066 imp:n=1
07225   0                 -823   440   -48    18  -565   567 u=066 imp:n=1
07226   0                 -473   447   -48    18  -667   586 u=066 imp:n=1
07227   0                 -823   440   -48    26  -567   586 u=066 imp:n=1
07228   0                 -416    17  -251   252  -770   771 u=066 imp:n=1
07229   0                 -416    17   -48    18  -565   770 u=066 imp:n=1
07230   0                 -844   447   -48    26  -563   667 u=066 imp:n=1
07231   0                 -416    17  -252    26  -567   771 u=066 imp:n=1
07232   0                 -416    17  -252    18  -770   567 u=066 imp:n=1
07233   0                 -844   447   -48    18  -565   567 u=066 imp:n=1
07234   0                 -416    17   -48   251  -770   771 u=066 imp:n=1
07235   0                  -19   441   -21    18  -565   563 u=066 imp:n=1
07236   0                 -844   447   -48    26  -567   563 u=066 imp:n=1
07237   0                 -462   457   -21    48  -565   563 u=066 imp:n=1
07238   0                 -820   824   -21    48  -565   563 u=066 imp:n=1
07239   0                 -823    17   -21    48  -565   563 u=066 imp:n=1
07240   0                 -820   824   -48    18  -586   569 u=066 imp:n=1
07241   0                  -19   441   -21    18  -563   569 u=066 imp:n=1
07242   0                 -416    17   -26    18  -567   568 u=066 imp:n=1
07243   0                  -10    13   -14     4   -81   563 u=066 imp:n=1
07244   0                  -12     9   -14     4   -81   563 u=066 imp:n=1
07245   0                  -19   441   -48    18  -569   600 u=066 imp:n=1
07246   0                 -823   440   -26    18  -567   586 u=066 imp:n=1
07247   0                 -819   462   -48    18  -569   601 u=066 imp:n=1
07248   0                 -453   843   -48    18  -569   668 u=066 imp:n=1
07249   0                 -844   447   -26    18  -567   667 u=066 imp:n=1
07250   0                 -819   457   -48    18  -601   600 u=066 imp:n=1
07251   0                 -416    17   -48    18  -568   587 u=066 imp:n=1
07252   0                  -19   453   -48    18  -600   669 u=066 imp:n=1
07253   0                 -451   447   -48    18  -587   669 u=066 imp:n=1
07254   0                 -446    17   -48    18  -587   669 u=066 imp:n=1
07255   0                  -19    17   -14    21  -565   569 u=066 imp:n=1
07256   0                 -604    17   -48    18  -669   672 u=066 imp:n=1
07257   0                  -19    75   -48    18  -672   674 u=066 imp:n=1
07258   0                  -80    78   -48    18  -673   674 u=066 imp:n=1
07259   0                  -19    17   -14    48  -569   674 u=066 imp:n=1
07260   0                  -19    17   -14    18  -674   566 u=066 imp:n=1
07261   3  0.8540120E-01    -2     1    -4     3  -564     5 u=066  imp:n=1
07262   3  0.8540120E-01    -2     1    -8     7  -564     5 u=066  imp:n=1
07263   3  0.8540120E-01    -9     1    -7     4  -564     5 u=066  imp:n=1
07264   3  0.8540120E-01    -2    10    -7     4  -564     5 u=066  imp:n=1
07265  34  0.1035093E+00   -10   608   -83     4  -609   610 u=066  imp:n=1
07266   0                  -10     9    -7     4  -564   609 u=066 imp:n=1
07267   0                  -10     9    -7     4  -610     5 u=066 imp:n=1
07268   0                  -10     9    -7    83  -609   610 u=066 imp:n=1
07269   0                 -608     9   -83     4  -609   610 u=066 imp:n=1
07270   1  0.3030146E-01    -2     1    -4     3   -81   563 u=067  imp:n=1
07271   1  0.3030146E-01    -2     1    -8     7   -81   563 u=067  imp:n=1
07272   2  0.7570860E-01    -9     1    -7     4   -81   563 u=067  imp:n=1
07273   2  0.7570860E-01    -2    10    -7     4   -81   563 u=067  imp:n=1
07274   3  0.8540120E-01    -2     1    -4     3  -563   564 u=067  imp:n=1
07275   3  0.8540120E-01    -2     1    -8     7  -563   564 u=067  imp:n=1
07276   3  0.8540120E-01    -9     1    -7     4  -563   564 u=067  imp:n=1
07277   3  0.8540120E-01    -2    10    -7     4  -563   564 u=067  imp:n=1
07278   4  0.7332760E-01   -13    12   -14     4   -81   565 u=067  imp:n=1
```

```
07279   5  0.3966184E-01   -13    12   -14     4  -566   564 u=067  imp:n=1
07280   6  0.3747366E-01   -13    19   -14    18  -565   566 u=067  imp:n=1
07281   6  0.3747366E-01   -17    12   -14    18  -565   566 u=067  imp:n=1
07282   6  0.3747366E-01   -13    12   -18     4  -565   566 u=067  imp:n=1
07283  48  0.1333519E+00  -441   440   -48    18  -667   586 u=067  imp:n=1
07284  40  0.5178530E-01  -440   435   -48    18  -670   669 u=067  imp:n=1
07285  86  0.8236775E-01  -435   434   -48    18  -565   770 u=067  imp:n=1
07286  87  0.2195034E-01  -435   434   -48    18  -771   667 u=067  imp:n=1
07287  88  0.7077679E-01  -435   434   -48   251  -770   771 u=067  imp:n=1
07288  88  0.7077679E-01  -435   434  -252    18  -770   771 u=067  imp:n=1
07289  89  0.6625060E-01  -435   439  -251   252  -770   771 u=067  imp:n=1
07290  89  0.6625060E-01  -438   434  -251   252  -770   771 u=067  imp:n=1
07291   0                 -439   438  -251   252  -770   771 u=067 imp:n=1
07292  85  0.1187737E+00  -473   472   -48    18  -586   587 u=067  imp:n=1
07293  36  0.6435380E-01  -432   422   -48    18  -565   667 u=067  imp:n=1
07294  37  0.6435380E-01  -432   422   -48    18  -667   586 u=067  imp:n=1
07295  38  0.8323048E-01  -432   422   -48    18  -668   669 u=067  imp:n=1
07296   7  0.8235419E-01  -422   835   -21    18  -565   567 u=067  imp:n=1
07297   7  0.8235419E-01  -422   835   -21    18  -568   569 u=067  imp:n=1
07298   8  0.7986135E-01  -422   835   -21    25  -567   568 u=067  imp:n=1
07299   8  0.7986135E-01  -422   835   -26    18  -567   568 u=067  imp:n=1
07300   9  0.6943934E-01  -422   836   -25    26  -567   568 u=067  imp:n=1
07301   9  0.6943934E-01  -837   835   -25    26  -567   568 u=067  imp:n=1
07302  10  0.4603587E-01  -836   837   -25    26  -567   568 u=067  imp:n=1
07303  27  0.1212447E+00  -422   421   -48    18  -569   600 u=067  imp:n=1
07304   7  0.8235419E-01  -839   838   -21    18  -565   567 u=067  imp:n=1
07305   7  0.8235419E-01  -839   838   -21    18  -568   569 u=067  imp:n=1
07306   8  0.7986135E-01  -839   838   -21    25  -567   568 u=067  imp:n=1
07307   8  0.7986135E-01  -839   838   -26    18  -567   568 u=067  imp:n=1
07308   9  0.6943934E-01  -839   840   -25    26  -567   568 u=067  imp:n=1
07309   9  0.6943934E-01  -841   838   -25    26  -567   568 u=067  imp:n=1
07310  10  0.4603587E-01  -840   841   -25    26  -567   568 u=067  imp:n=1
07311  26  0.7164290E-01  -421   417   -48    18  -565   601 u=067  imp:n=1
07312   7  0.8235419E-01  -417   416   -21    18  -565   567 u=067  imp:n=1
07313   7  0.8235419E-01  -417   416   -21    18  -568   569 u=067  imp:n=1
07314   8  0.7986135E-01  -417   416   -21    25  -567   568 u=067  imp:n=1
07315   8  0.7986135E-01  -417   416   -26    18  -567   568 u=067  imp:n=1
07316   9  0.6943934E-01  -417   419   -25    26  -567   568 u=067  imp:n=1
07317   9  0.6943934E-01  -418   416   -25    26  -567   568 u=067  imp:n=1
07318  10  0.4603587E-01  -419   418   -25    26  -567   568 u=067  imp:n=1
07319  25  0.1201037E+00  -417   842   -48    18  -569   600 u=067  imp:n=1
07320  49  0.1333121E+00  -441   440   -48    18  -565   692 u=067  imp:n=1
07321  49  0.1333121E+00  -441   440   -48    18  -692   667 u=067  imp:n=1
07322  24  0.1232187E+00  -441   440   -48    18  -586   587 u=067  imp:n=1
07323  41  0.5279270E-01  -440   435   -48    18  -565   668 u=067  imp:n=1
07324  42  0.5392130E-01  -440   435   -48    18  -668   670 u=067  imp:n=1
07325  24  0.1232187E+00  -435   473   -48    18  -586   587 u=067  imp:n=1
07326  24  0.1232187E+00  -472   433   -48    18  -586   587 u=067  imp:n=1
07327  28  0.1187656E+00  -434   433   -48    18  -565   586 u=067  imp:n=1
07328  41  0.5279270E-01  -433   432   -48    18  -565   668 u=067  imp:n=1
07329  42  0.5392130E-01  -433   432   -48    18  -668   669 u=067  imp:n=1
07330  28  0.1187656E+00  -835   839   -48    18  -565   710 u=067  imp:n=1
07331  28  0.1187656E+00  -835   839   -48    18  -710   586 u=067  imp:n=1
07332  31  0.2714513E-01   -19   604   -48    18  -669   672 u=067  imp:n=1
07333  32  0.8823003E-01   -75    17   -48    18  -672   673 u=067  imp:n=1
07334  33  0.8829426E-01   -78    17   -48    18  -673   674 u=067  imp:n=1
07335  33  0.8829426E-01   -75    80   -48    18  -673   674 u=067  imp:n=1
07336   0                  -12     9   -14     4  -563   564 u=067 imp:n=1
07337   0                  -10    13   -14     4  -563   564 u=067 imp:n=1
07338   0                  -10     9    -7    14   -81   564 u=067 imp:n=1
07339   0                 -416    17   -21    18  -563   771 u=067 imp:n=1
07340   0                 -838   421   -48    18  -563   771 u=067 imp:n=1
07341   0                  -19   441  -251   252  -770   771 u=067 imp:n=1
07342   0                  -19   441   -48    18  -565   770 u=067 imp:n=1
07343   0                 -838   421   -48    18  -565   770 u=067 imp:n=1
07344   0                 -416    17   -48    18  -565   770 u=067 imp:n=1
07345   0                 -838   421   -48   251  -770   563 u=067 imp:n=1
07346   0                 -416    17   -48   251  -770   563 u=067 imp:n=1
07347   0                  -19   441  -252    18  -770   771 u=067 imp:n=1
07348   0                  -19   422   -21    48  -565   563 u=067 imp:n=1
07349   0                 -835   839   -21    48  -565   563 u=067 imp:n=1
07350   0                 -838   417   -21    48  -563   771 u=067 imp:n=1
07351   0                 -835   839   -21    48  -563   771 u=067 imp:n=1
07352   0                  -19   422   -21    48  -563   771 u=067 imp:n=1
07353   0                  -19    17   -14    21  -565   569 u=067 imp:n=1
07354   0                 -838   417   -21    48  -565   563 u=067 imp:n=1
```

```
07355   0                -416    17   -21    48  -565   563 u=067 imp:n=1
07356   0                -838   421  -252    18  -770   563 u=067 imp:n=1
07357   0                -416    17  -252    18  -770   563 u=067 imp:n=1
07358   0                -838   421  -251   252  -770   563 u=067 imp:n=1
07359   0                -416    17  -251   252  -770   563 u=067 imp:n=1
07360   0                 -19   441   -48   251  -770   771 u=067 imp:n=1
07361   0                 -10    13   -14     4   -81   563 u=067 imp:n=1
07362   0                -416    17   -21    18  -771   667 u=067 imp:n=1
07363   0                -838   417   -21    48  -771   667 u=067 imp:n=1
07364   0                -835   839   -21    48  -771   667 u=067 imp:n=1
07365   0                 -19   422   -21    48  -771   667 u=067 imp:n=1
07366   0                 -12     9   -14     4   -81   563 u=067 imp:n=1
07367   0                -435   434   -48    18  -667   586 u=067 imp:n=1
07368   0                -838   421   -48    18  -667   586 u=067 imp:n=1
07369   0                 -19   422   -21    48  -667   586 u=067 imp:n=1
07370   0                -835   839   -21    48  -667   586 u=067 imp:n=1
07371   0                -838   421   -48    18  -771   667 u=067 imp:n=1
07372   0                -838   417   -21    48  -667   586 u=067 imp:n=1
07373   0                -416    17   -21    18  -667   586 u=067 imp:n=1
07374   0                 -19   441   -48    18  -771   587 u=067 imp:n=1
07375   0                -416    17   -21    48  -586   569 u=067 imp:n=1
07376   0                -838   417   -21    48  -586   569 u=067 imp:n=1
07377   0                -835   839   -21    48  -586   569 u=067 imp:n=1
07378   0                 -19   422   -21    48  -586   569 u=067 imp:n=1
07379   0                 -19   440   -48    18  -587   669 u=067 imp:n=1
07380   0                -435   433   -48    18  -587   669 u=067 imp:n=1
07381   0                -422    17   -48    18  -600   669 u=067 imp:n=1
07382   0                -604    17   -48    18  -669   672 u=067 imp:n=1
07383   0                 -19    75   -48    18  -672   674 u=067 imp:n=1
07384   0                 -19    17   -14    48  -569   674 u=067 imp:n=1
07385   0                 -80    78   -48    18  -673   674 u=067 imp:n=1
07386   0                 -19    17   -14    18  -674   566 u=067 imp:n=1
07387   0                -421   417   -48    18  -601   600 u=067 imp:n=1
07388   0                -842    17   -48    18  -569   600 u=067 imp:n=1
07389   0                -432   422   -48    18  -586   668 u=067 imp:n=1
07390   0                -416    17   -48    18  -586   569 u=067 imp:n=1
07391   0                -838   421   -48    18  -586   569 u=067 imp:n=1
07392   0                -835   839   -48    18  -586   569 u=067 imp:n=1
07393   3  0.8540120E-01    -2     1    -4     3  -564     5 u=067  imp:n=1
07394   3  0.8540120E-01    -2     1    -8     7  -564     5 u=067  imp:n=1
07395   3  0.8540120E-01    -9     1    -7     4  -564     5 u=067  imp:n=1
07396   3  0.8540120E-01    -2    10    -7     4  -564     5 u=067  imp:n=1
07397  34  0.1035093E+00   -10   608   -83     4  -609   610 u=067  imp:n=1
07398   0                  -10     9    -7     4  -564   609 u=067 imp:n=1
07399   0                  -10     9    -7     4  -610     5 u=067 imp:n=1
07400   0                  -10     9    -7    83  -609   610 u=067 imp:n=1
07401   0                 -608     9   -83     4  -609   610 u=067 imp:n=1
07402   1  0.3030146E-01    -2     1    -4     3   -81   563 u=068  imp:n=1
07403   1  0.3030146E-01    -2     1    -8     7   -81   563 u=068  imp:n=1
07404   2  0.7570860E-01    -9     1    -7     4   -81   563 u=068  imp:n=1
07405   2  0.7570860E-01    -2    10    -7     4   -81   563 u=068  imp:n=1
07406   3  0.8540120E-01    -2     1    -4     3  -563   564 u=068  imp:n=1
07407   3  0.8540120E-01    -2     1    -8     7  -563   564 u=068  imp:n=1
07408   3  0.8540120E-01    -9     1    -7     4  -563   564 u=068  imp:n=1
07409   3  0.8540120E-01    -2    10    -7     4  -563   564 u=068  imp:n=1
07410   4  0.7332760E-01   -13    12   -14     4   -81   565 u=068  imp:n=1
07411   5  0.3966184E-01   -13    12   -14     4  -566   564 u=068  imp:n=1
07412   6  0.3747366E-01   -13    19   -14    18  -565   566 u=068  imp:n=1
07413   6  0.3747366E-01   -17    12   -14    18  -565   566 u=068  imp:n=1
07414   6  0.3747366E-01   -13    12   -18     4  -565   566 u=068  imp:n=1
07415  36  0.6435380E-01   -19   604  -476   475  -565   667 u=068  imp:n=1
07416  38  0.8323048E-01   -19   604  -478   477  -668   669 u=068  imp:n=1
07417  37  0.6435380E-01   -19   604  -476   475  -667   586 u=068  imp:n=1
07418  40  0.5178530E-01   -19   604  -480   479  -670   669 u=068  imp:n=1
07419  28  0.1187656E+00   -19   604  -482   481  -565   586 u=068  imp:n=1
07420  85  0.1187737E+00   -19   604  -482   481  -586   587 u=068  imp:n=1
07421  86  0.8236775E-01   -19   604  -479   482  -565   770 u=068  imp:n=1
07422  87  0.2195034E-01   -19   604  -479   482  -771   667 u=068  imp:n=1
07423  88  0.7077679E-01  -848   604  -479   482  -770   771 u=068  imp:n=1
07424  88  0.7077679E-01   -19   849  -479   482  -770   771 u=068  imp:n=1
07425  89  0.6625060E-01  -849   848  -485   482  -770   771 u=068  imp:n=1
07426  89  0.6625060E-01  -849   848  -479   486  -770   771 u=068  imp:n=1
07427   0                 -849   848  -486   485  -770   771 u=068 imp:n=1
07428   7  0.8235419E-01   -19    17  -475   487  -565   567 u=068  imp:n=1
07429   7  0.8235419E-01   -19    17  -475   487  -568   569 u=068  imp:n=1
07430   8  0.7986135E-01  -202    17  -475   487  -567   568 u=068  imp:n=1
```

```
07431   8  0.7986135E-01   -19   201  -475   487  -567   568 u=068  imp:n=1
07432   9  0.6943934E-01  -201   202  -488   487  -567   568 u=068  imp:n=1
07433   9  0.6943934E-01  -201   202  -475   489  -567   568 u=068  imp:n=1
07434  10  0.4603587E-01  -201   202  -489   488  -567   568 u=068  imp:n=1
07435  15  0.8003452E-01   -19    17  -491   490  -565   567 u=068  imp:n=1
07436  15  0.8003452E-01   -19    17  -491   490  -568   569 u=068  imp:n=1
07437  16  0.7744373E-01  -202    17  -491   490  -567   568 u=068  imp:n=1
07438  16  0.7744373E-01   -19   201  -491   490  -567   568 u=068  imp:n=1
07439  17  0.6733980E-01  -201   202  -492   490  -567   568 u=068  imp:n=1
07440  17  0.6733980E-01  -201   202  -491   493  -567   568 u=068  imp:n=1
07441  18  0.4487970E-01  -201   202  -493   492  -567   568 u=068  imp:n=1
07442  23  0.1232400E+00   -19   604  -495   494  -565   586 u=068  imp:n=1
07443  15  0.8003452E-01   -19    17  -497   496  -565   567 u=068  imp:n=1
07444  15  0.8003452E-01   -19    17  -497   496  -568   569 u=068  imp:n=1
07445  16  0.7744373E-01  -202    17  -497   496  -567   568 u=068  imp:n=1
07446  16  0.7744373E-01   -19   201  -497   496  -567   568 u=068  imp:n=1
07447  17  0.6733980E-01  -201   202  -498   496  -567   568 u=068  imp:n=1
07448  17  0.6733980E-01  -201   202  -497   499  -567   568 u=068  imp:n=1
07449  18  0.4487970E-01  -201   202  -499   498  -567   568 u=068  imp:n=1
07450  25  0.1201037E+00   -19   604  -500   490  -569   600 u=068  imp:n=1
07451  11  0.7961518E-01   -19    17  -502   501  -565   567 u=068  imp:n=1
07452  11  0.7961518E-01   -19    17  -502   501  -571   572 u=068  imp:n=1
07453  12  0.7714468E-01  -202    17  -502   501  -567   571 u=068  imp:n=1
07454  12  0.7714468E-01   -19   201  -502   501  -567   571 u=068  imp:n=1
07455  13  0.6712964E-01  -201   202  -503   501  -567   571 u=068  imp:n=1
07456  13  0.6712964E-01  -201   202  -502   504  -567   571 u=068  imp:n=1
07457  14  0.4579853E-01  -201   202  -504   503  -567   571 u=068  imp:n=1
07458  11  0.7961518E-01   -19    17  -502   501  -572   575 u=068  imp:n=1
07459  11  0.7961518E-01   -19    17  -502   501  -576   577 u=068  imp:n=1
07460  12  0.7714468E-01  -202    17  -502   501  -575   576 u=068  imp:n=1
07461  12  0.7714468E-01   -19   201  -502   501  -575   576 u=068  imp:n=1
07462  13  0.6712964E-01  -201   202  -503   501  -575   576 u=068  imp:n=1
07463  13  0.6712964E-01  -201   202  -502   504  -575   576 u=068  imp:n=1
07464  14  0.4579853E-01  -201   202  -504   503  -575   576 u=068  imp:n=1
07465  29  0.1183522E+00   -19   604  -505    18  -577   602 u=068  imp:n=1
07466  91  0.7394484E-01  -848   604  -479   482  -667   669 u=068  imp:n=1
07467  91  0.7394484E-01   -19   849  -479   482  -667   669 u=068  imp:n=1
07468  92  0.6921516E-01  -849   848  -485   482  -667   669 u=068  imp:n=1
07469  92  0.6921516E-01  -849   848  -479   486  -667   669 u=068  imp:n=1
07470   0                 -849   848  -486   485  -667   669 u=068 imp:n=1
07471  41  0.5279270E-01   -19   604  -481   476  -565   668 u=068  imp:n=1
07472  42  0.5392130E-01   -19   604  -506   478  -668   669 u=068  imp:n=1
07473  41  0.5279270E-01   -19   604  -480   479  -565   668 u=068  imp:n=1
07474  42  0.5392130E-01   -19   604  -480   479  -668   670 u=068  imp:n=1
07475  30  0.5464445E-01   -19   604  -487   491  -565   586 u=068  imp:n=1
07476  26  0.7164290E-01   -19   604  -490   495  -565   601 u=068  imp:n=1
07477  26  0.7164290E-01   -19   604  -494   497  -565   601 u=068  imp:n=1
07478  30  0.5464445E-01   -19   604  -496   502  -565   586 u=068  imp:n=1
07479  24  0.1232187E+00   -19   604  -477   500  -569   600 u=068  imp:n=1
07480  24  0.1232187E+00   -19   604  -495   494  -586   587 u=068  imp:n=1
07481  31  0.2714513E-01   -19   604   -48    18  -669   672 u=068  imp:n=1
07482  32  0.8823003E-01   -75    17   -48    18  -672   673 u=068  imp:n=1
07483  33  0.8829426E-01   -78    17   -48    18  -673   674 u=068  imp:n=1
07484  33  0.8829426E-01   -75    80   -48    18  -673   674 u=068  imp:n=1
07485   0                  -12     9   -14     4  -563   564 u=068 imp:n=1
07486   0                  -10    13   -14     4  -563   564 u=068 imp:n=1
07487   0                  -10     9    -7    14   -81   564 u=068 imp:n=1
07488   0                  -19    17  -501    18  -565   577 u=068 imp:n=1
07489   0                  -19    17  -496   502  -586   569 u=068 imp:n=1
07490   0                 -604    17  -490   497  -586   568 u=068 imp:n=1
07491   0                 -604    17  -480   482  -565   770 u=068 imp:n=1
07492   0                 -604    17  -480   482  -770   563 u=068 imp:n=1
07493   0                  -19    17  -487   491  -586   569 u=068 imp:n=1
07494   0                  -19    17  -476   475  -586   569 u=068 imp:n=1
07495   0                 -604    17  -481   476  -565   668 u=068 imp:n=1
07496   0                 -604    17  -490   497  -565   567 u=068 imp:n=1
07497   0                  -19    17  -497   502  -569   577 u=068 imp:n=1
07498   0                 -604    17  -490   497  -569   576 u=068 imp:n=1
07499   0                 -604    17  -490   497  -567   563 u=068 imp:n=1
07500   0                  -10    13   -14     4   -81   563 u=068 imp:n=1
07501   0                  -19    17  -497   505  -577   601 u=068 imp:n=1
07502   0                 -604    17  -490   497  -577   668 u=068 imp:n=1
07503   0                  -12     9   -14     4   -81   563 u=068 imp:n=1
07504   0                 -604    17  -505    18  -577   602 u=068 imp:n=1
07505   0                 -604    17  -482   481  -565   667 u=068 imp:n=1
07506   0                 -604    17  -480   482  -771   667 u=068 imp:n=1
```

```
07507   0                -604    17  -490   497  -576   577 u=068 imp:n=1
07508   0                -604    17  -480   482  -563   771 u=068 imp:n=1
07509   0                -604    17  -490   497  -563   667 u=068 imp:n=1
07510   0                 -19    17  -476   477  -569   668 u=068 imp:n=1
07511   0                -604    17  -477   490  -569   668 u=068 imp:n=1
07512   0                -604    17  -482   481  -670   587 u=068 imp:n=1
07513   0                -604    17  -480   482  -670   669 u=068 imp:n=1
07514   0                 -19    17  -482   506  -587   669 u=068 imp:n=1
07515   0                -604    17  -480   481  -668   670 u=068 imp:n=1
07516   0                -604    17  -490   497  -568   569 u=068 imp:n=1
07517   0                -604    17  -506   477  -668   669 u=068 imp:n=1
07518   0                 -19    17  -481   506  -668   587 u=068 imp:n=1
07519   0                -604    17  -477   490  -668   600 u=068 imp:n=1
07520   0                -604    17  -490   495  -668   601 u=068 imp:n=1
07521   0                -604    17  -494   497  -668   601 u=068 imp:n=1
07522   0                 -19    17   -14   480  -565   669 u=068 imp:n=1
07523   0                -604    17  -480   481  -586   668 u=068 imp:n=1
07524   0                -604    17  -495   494  -668   587 u=068 imp:n=1
07525   0                 -19    17  -490   495  -601   587 u=068 imp:n=1
07526   0                 -19    17  -494   505  -601   587 u=068 imp:n=1
07527   0                -604    17  -496   502  -565   586 u=068 imp:n=1
07528   0                -604    17  -490   497  -667   586 u=068 imp:n=1
07529   0                 -19    17  -490   505  -587   600 u=068 imp:n=1
07530   0                 -19    17  -477   505  -600   602 u=068 imp:n=1
07531   0                -604    17  -487   491  -565   586 u=068 imp:n=1
07532   0                 -19    17  -477    18  -602   669 u=068 imp:n=1
07533   0                -604    17   -48    18  -669   672 u=068 imp:n=1
07534   0                -604    17  -480   481  -667   586 u=068 imp:n=1
07535   0                 -19    75   -48    18  -672   674 u=068 imp:n=1
07536   0                 -80    78   -48    18  -673   674 u=068 imp:n=1
07537   0                -604    17  -476   475  -565   586 u=068 imp:n=1
07538   0                 -19    17   -14    18  -674   566 u=068 imp:n=1
07539   0                 -19    17   -14    48  -669   674 u=068 imp:n=1
07540   3  0.8540120E-01    -2     1    -4     3  -564     5 u=068  imp:n=1
07541   3  0.8540120E-01    -2     1    -8     7  -564     5 u=068  imp:n=1
07542   3  0.8540120E-01    -9     1    -7     4  -564     5 u=068  imp:n=1
07543   3  0.8540120E-01    -2    10    -7     4  -564     5 u=068  imp:n=1
07544  34  0.1035093E+00   -10   608   -83     4  -609   610 u=068  imp:n=1
07545   0                  -10     9    -7     4  -564   609 u=068 imp:n=1
07546   0                  -10     9    -7     4  -610     5 u=068 imp:n=1
07547   0                  -10     9    -7    83  -609   610 u=068 imp:n=1
07548   0                 -608     9   -83     4  -609   610 u=068 imp:n=1
07549   1  0.3030146E-01    -2     1    -4     3   -81   563 u=069  imp:n=1
07550   1  0.3030146E-01    -2     1    -8     7   -81   563 u=069  imp:n=1
07551   2  0.7570860E-01    -9     1    -7     4   -81   563 u=069  imp:n=1
07552   2  0.7570860E-01    -2    10    -7     4   -81   563 u=069  imp:n=1
07553   3  0.8540120E-01    -2     1    -4     3  -563   564 u=069  imp:n=1
07554   3  0.8540120E-01    -2     1    -8     7  -563   564 u=069  imp:n=1
07555   3  0.8540120E-01    -9     1    -7     4  -563   564 u=069  imp:n=1
07556   3  0.8540120E-01    -2    10    -7     4  -563   564 u=069  imp:n=1
07557   4  0.7332760E-01   -13    12   -14     4   -81   565 u=069  imp:n=1
07558   5  0.3966184E-01   -13    12   -14     4  -566   564 u=069  imp:n=1
07559   6  0.3747366E-01   -13    19   -14    18  -565   566 u=069  imp:n=1
07560   6  0.3747366E-01   -17    12   -14    18  -565   566 u=069  imp:n=1
07561   6  0.3747366E-01   -13    12   -18     4  -565   566 u=069  imp:n=1
07562   7  0.8235419E-01   -19    17  -512   341  -565   567 u=069  imp:n=1
07563   7  0.8235419E-01   -19    17  -512   341  -568   569 u=069  imp:n=1
07564   8  0.7986135E-01  -202    17  -512   341  -567   568 u=069  imp:n=1
07565   8  0.7986135E-01   -19   201  -512   341  -567   568 u=069  imp:n=1
07566   9  0.6943934E-01  -201   202  -513   341  -567   568 u=069  imp:n=1
07567   9  0.6943934E-01  -201   202  -512   514  -567   568 u=069  imp:n=1
07568  10  0.4603587E-01  -201   202  -514   513  -567   568 u=069  imp:n=1
07569  15  0.8003452E-01   -19    17  -516   515  -565   567 u=069  imp:n=1
07570  15  0.8003452E-01   -19    17  -516   515  -568   569 u=069  imp:n=1
07571  16  0.7744373E-01  -202    17  -516   515  -567   568 u=069  imp:n=1
07572  16  0.7744373E-01   -19   201  -516   515  -567   568 u=069  imp:n=1
07573  17  0.6733980E-01  -201   202  -517   515  -567   568 u=069  imp:n=1
07574  17  0.6733980E-01  -201   202  -516   518  -567   568 u=069  imp:n=1
07575  18  0.4487970E-01  -201   202  -518   517  -567   568 u=069  imp:n=1
07576  15  0.8003452E-01   -19    17  -522   521  -565   567 u=069  imp:n=1
07577  15  0.8003452E-01   -19    17  -522   521  -568   569 u=069  imp:n=1
07578  16  0.7744373E-01  -202    17  -522   521  -567   568 u=069  imp:n=1
07579  16  0.7744373E-01   -19   201  -522   521  -567   568 u=069  imp:n=1
07580  17  0.6733980E-01  -201   202  -523   521  -567   568 u=069  imp:n=1
07581  17  0.6733980E-01  -201   202  -522   524  -567   568 u=069  imp:n=1
07582  18  0.4487970E-01  -201   202  -524   523  -567   568 u=069  imp:n=1
```

```
07583  29  0.1183522E+00   -19   604  -530   521  -577   602 u=069  imp:n=1
07584  62  0.8630075E-01   -19   604  -520   519  -565   770 u=069  imp:n=1
07585  63  0.3112637E-01   -19   604  -520   519  -771   667 u=069  imp:n=1
07586  64  0.7416011E-01  -848   604  -520   519  -770   771 u=069  imp:n=1
07587  64  0.7416011E-01   -19   849  -520   519  -770   771 u=069  imp:n=1
07588  65  0.7056425E-01  -849   848  -850   519  -770   771 u=069  imp:n=1
07589  65  0.7056425E-01  -849   848  -520   851  -770   771 u=069  imp:n=1
07590   0                 -849   848  -851   850  -770   771 u=069 imp:n=1
07591  25  0.1201037E+00   -19   604  -852   341  -569   600 u=069  imp:n=1
07592  36  0.6435380E-01   -19   604  -341   507  -565   667 u=069  imp:n=1
07593  28  0.1187656E+00   -19   604  -853   531  -565   586 u=069  imp:n=1
07594  86  0.8236775E-01   -19   604  -509   854  -586   829 u=069  imp:n=1
07595  87  0.2195034E-01   -19   604  -509   854  -830   587 u=069  imp:n=1
07596  88  0.7077679E-01  -848   604  -509   854  -829   830 u=069  imp:n=1
07597  88  0.7077679E-01   -19   849  -509   854  -829   830 u=069  imp:n=1
07598  89  0.6625060E-01  -849   848  -855   854  -829   830 u=069  imp:n=1
07599  89  0.6625060E-01  -849   848  -509   856  -829   830 u=069  imp:n=1
07600   0                 -849   848  -856   855  -829   830 u=069 imp:n=1
07601  85  0.1187737E+00   -19   604  -854   508  -586   587 u=069  imp:n=1
07602  11  0.7961518E-01   -19    17  -527   526  -565   567 u=069  imp:n=1
07603  11  0.7961518E-01   -19    17  -527   526  -571   572 u=069  imp:n=1
07604  12  0.7714468E-01  -202    17  -527   526  -567   571 u=069  imp:n=1
07605  12  0.7714468E-01   -19   201  -527   526  -567   571 u=069  imp:n=1
07606  13  0.6712964E-01  -201   202  -528   526  -567   571 u=069  imp:n=1
07607  13  0.6712964E-01  -201   202  -527   529  -567   571 u=069  imp:n=1
07608  14  0.4579853E-01  -201   202  -529   528  -567   571 u=069  imp:n=1
07609  11  0.7961518E-01   -19    17  -527   526  -572   575 u=069  imp:n=1
07610  11  0.7961518E-01   -19    17  -527   526  -576   577 u=069  imp:n=1
07611  12  0.7714468E-01  -202    17  -527   526  -575   576 u=069  imp:n=1
07612  12  0.7714468E-01   -19   201  -527   526  -575   576 u=069  imp:n=1
07613  13  0.6712964E-01  -201   202  -528   526  -575   576 u=069  imp:n=1
07614  13  0.6712964E-01  -201   202  -527   529  -575   576 u=069  imp:n=1
07615  14  0.4579853E-01  -201   202  -529   528  -575   576 u=069  imp:n=1
07616  37  0.6435380E-01   -19   604  -341   507  -667   586 u=069  imp:n=1
07617  38  0.8323048E-01   -19   604  -341   507  -586   587 u=069  imp:n=1
07618  30  0.5464445E-01   -19   604  -515   512  -565   586 u=069  imp:n=1
07619  26  0.7164290E-01   -19   604  -519   516  -565   601 u=069  imp:n=1
07620  26  0.7164290E-01   -19   604  -521   520  -565   601 u=069  imp:n=1
07621  30  0.5464445E-01   -19   604  -526   522  -565   586 u=069  imp:n=1
07622  24  0.1232187E+00   -19   604  -520   519  -586   587 u=069  imp:n=1
07623  24  0.1232187E+00   -19   604  -229   852  -569   600 u=069  imp:n=1
07624  41  0.5279270E-01   -19   604  -507   509  -565   668 u=069  imp:n=1
07625  41  0.5279270E-01   -19   604  -508    18  -565   668 u=069  imp:n=1
07626  23  0.1232400E+00   -19   604  -509   853  -565   586 u=069  imp:n=1
07627  23  0.1232400E+00   -19   604  -531   508  -565   586 u=069  imp:n=1
07628  41  0.5279270E-01   -19   604  -507   509  -668   669 u=069  imp:n=1
07629  41  0.5279270E-01   -19   604  -508    18  -668   669 u=069  imp:n=1
07630  31  0.2714513E-01   -19   604   -48    18  -669   672 u=069  imp:n=1
07631  32  0.8823003E-01   -75    17   -48    18  -672   673 u=069  imp:n=1
07632  33  0.8829426E-01   -78    17   -48    18  -673   674 u=069  imp:n=1
07633  33  0.8829426E-01   -75    80   -48    18  -673   674 u=069  imp:n=1
07634   0                  -12     9   -14     4  -563   564 u=069 imp:n=1
07635   0                  -10    13   -14     4  -563   564 u=069 imp:n=1
07636   0                  -10     9    -7    14   -81   564 u=069 imp:n=1
07637   0                 -604    17  -341    18  -829   568 u=069 imp:n=1
07638   0                 -604    17  -521   516  -565   770 u=069 imp:n=1
07639   0                 -604    17  -521   516  -770   567 u=069 imp:n=1
07640   0                 -604    17  -341    18  -565   567 u=069 imp:n=1
07641   0                 -604    17  -521   516  -567   563 u=069 imp:n=1
07642   0                 -604    17  -341    18  -586   829 u=069 imp:n=1
07643   0                 -604    17  -341    18  -567   563 u=069 imp:n=1
07644   0                  -10    13   -14     4   -81   563 u=069 imp:n=1
07645   0                  -12     9   -14     4   -81   563 u=069 imp:n=1
07646   0                 -604    17  -341    18  -667   586 u=069 imp:n=1
07647   0                 -604    17  -341    18  -568   569 u=069 imp:n=1
07648   0                 -604    17  -530   521  -577   602 u=069 imp:n=1
07649   0                  -19    17   -14   530  -577   602 u=069 imp:n=1
07650   0                 -604    17  -852   341  -577   600 u=069 imp:n=1
07651   0                  -19    17  -521   520  -601   587 u=069 imp:n=1
07652   0                 -604    17  -341    18  -563   667 u=069 imp:n=1
07653   0                  -19    17  -519   229  -601   587 u=069 imp:n=1
07654   0                  -19    17  -521   229  -587   600 u=069 imp:n=1
07655   0                 -604    17  -509   508  -830   587 u=069 imp:n=1
07656   0                  -19    17  -341   507  -587   600 u=069 imp:n=1
07657   0                 -604    17  -341   507  -577   587 u=069 imp:n=1
07658   0                  -19    17  -515   512  -586   569 u=069 imp:n=1
```

```
07659   0                -604    17  -515   512  -565   586 u=069 imp:n=1
07660   0                -604    17  -521   516  -563   771 u=069 imp:n=1
07661   0                -604    17  -509   508  -577   830 u=069 imp:n=1
07662   0                 -19    17  -521   507  -600   602 u=069 imp:n=1
07663   0                 -19    17  -520   519  -667   586 u=069 imp:n=1
07664   0                -604    17  -520   519  -586   587 u=069 imp:n=1
07665   0                -604    17  -521   520  -771   601 u=069 imp:n=1
07666   0                -604    17  -519   516  -771   601 u=069 imp:n=1
07667   0                -604    17  -507   509  -577   669 u=069 imp:n=1
07668   0                 -19    17   -14   507  -602   669 u=069 imp:n=1
07669   0                -604    17  -520   519  -771   667 u=069 imp:n=1
07670   0                -604    17  -526   522  -565   586 u=069 imp:n=1
07671   0                 -19    17   -14   527  -565   577 u=069 imp:n=1
07672   0                 -19    17  -526   522  -586   569 u=069 imp:n=1
07673   0                -604    17  -508    18  -577   669 u=069 imp:n=1
07674   0                 -19    17  -509   508  -587   669 u=069 imp:n=1
07675   0                -604    17   -48    18  -669   672 u=069 imp:n=1
07676   0                 -19    75   -48    18  -672   674 u=069 imp:n=1
07677   0                 -80    78   -48    18  -673   674 u=069 imp:n=1
07678   0                 -19    17   -14    48  -669   674 u=069 imp:n=1
07679   0                -604    17  -852    18  -569   577 u=069 imp:n=1
07680   0                 -19    17   -14    18  -674   566 u=069 imp:n=1
07681   0                 -19    17  -526   521  -569   577 u=069 imp:n=1
07682   0                -604    17  -229   852  -569   600 u=069 imp:n=1
07683   0                 -19    17  -516   229  -569   601 u=069 imp:n=1
07684   3  0.8540120E-01   -2     1    -4     3  -564     5 u=069  imp:n=1
07685   3  0.8540120E-01   -2     1    -8     7  -564     5 u=069  imp:n=1
07686   3  0.8540120E-01   -9     1    -7     4  -564     5 u=069  imp:n=1
07687   3  0.8540120E-01   -2    10    -7     4  -564     5 u=069  imp:n=1
07688  34  0.1035093E+00  -10   608   -83     4  -609   610 u=069  imp:n=1
07689   0                 -10     9    -7     4  -564   609 u=069 imp:n=1
07690   0                 -10     9    -7     4  -610     5 u=069 imp:n=1
07691   0                 -10     9    -7    83  -609   610 u=069 imp:n=1
07692   0                -608     9   -83     4  -609   610 u=069 imp:n=1
07693   1  0.3030146E-01   -2     1    -4     3   -81   563 u=070  imp:n=1
07694   1  0.3030146E-01   -2     1    -8     7   -81   563 u=070  imp:n=1
07695   2  0.7570860E-01   -9     1    -7     4   -81   563 u=070  imp:n=1
07696   2  0.7570860E-01   -2    10    -7     4   -81   563 u=070  imp:n=1
07697   3  0.8540120E-01   -2     1    -4     3  -563   564 u=070  imp:n=1
07698   3  0.8540120E-01   -2     1    -8     7  -563   564 u=070  imp:n=1
07699   3  0.8540120E-01   -9     1    -7     4  -563   564 u=070  imp:n=1
07700   3  0.8540120E-01   -2    10    -7     4  -563   564 u=070  imp:n=1
07701   4  0.7332760E-01  -13    12   -14     4   -81   565 u=070  imp:n=1
07702   5  0.3966184E-01  -13    12   -14     4  -566   564 u=070  imp:n=1
07703   6  0.3747366E-01  -13    19   -14    18  -565   566 u=070  imp:n=1
07704   6  0.3747366E-01  -17    12   -14    18  -565   566 u=070  imp:n=1
07705   6  0.3747366E-01  -13    12   -18     4  -565   566 u=070  imp:n=1
07706  11  0.7961518E-01 -121   611   -21    18  -565   567 u=070  imp:n=1
07707  11  0.7961518E-01 -121   611   -21    18  -571   572 u=070  imp:n=1
07708  12  0.7714468E-01 -121   611   -21    25  -567   571 u=070  imp:n=1
07709  12  0.7714468E-01 -121   611   -26    18  -567   571 u=070  imp:n=1
07710  13  0.6712964E-01 -121   612   -25    26  -567   571 u=070  imp:n=1
07711  13  0.6712964E-01 -613   611   -25    26  -567   571 u=070  imp:n=1
07712  14  0.4579853E-01 -612   613   -25    26  -567   571 u=070  imp:n=1
07713  11  0.7961518E-01 -121   611   -21    18  -572   575 u=070  imp:n=1
07714  11  0.7961518E-01 -121   611   -21    18  -576   577 u=070  imp:n=1
07715  12  0.7714468E-01 -121   611   -21    25  -575   576 u=070  imp:n=1
07716  12  0.7714468E-01 -121   611   -26    18  -575   576 u=070  imp:n=1
07717  13  0.6712964E-01 -121   612   -25    26  -575   576 u=070  imp:n=1
07718  13  0.6712964E-01 -613   611   -25    26  -575   576 u=070  imp:n=1
07719  14  0.4579853E-01 -612   613   -25    26  -575   576 u=070  imp:n=1
07720  15  0.8003452E-01 -615   614   -21    18  -565   567 u=070  imp:n=1
07721  15  0.8003452E-01 -615   614   -21    18  -568   569 u=070  imp:n=1
07722  16  0.7744373E-01 -615   614   -21    25  -567   568 u=070  imp:n=1
07723  16  0.7744373E-01 -615   614   -26    18  -567   568 u=070  imp:n=1
07724  17  0.6733980E-01 -615   616   -25    26  -567   568 u=070  imp:n=1
07725  17  0.6733980E-01 -617   614   -25    26  -567   568 u=070  imp:n=1
07726  18  0.4487970E-01 -616   617   -25    26  -567   568 u=070  imp:n=1
07727  62  0.8630075E-01 -120   119   -48    18  -565   770 u=070  imp:n=1
07728  63  0.3112637E-01 -120   119   -48    18  -771   667 u=070  imp:n=1
07729  64  0.7416011E-01 -120   119   -48   251  -770   771 u=070  imp:n=1
07730  64  0.7416011E-01 -120   119  -252    18  -770   771 u=070  imp:n=1
07731  65  0.7056425E-01 -120   857  -251   252  -770   771 u=070  imp:n=1
07732  65  0.7056425E-01 -858   119  -251   252  -770   771 u=070  imp:n=1
07733   0                -857   858  -251   252  -770   771 u=070 imp:n=1
07734  15  0.8003452E-01 -118   618   -21    18  -565   567 u=070  imp:n=1
```

```
07735  15  0.8003452E-01  -118   618   -21    18  -568   569 u=070  imp:n=1
07736  16  0.7744373E-01  -118   618   -21    25  -567   568 u=070  imp:n=1
07737  16  0.7744373E-01  -118   618   -26    18  -567   568 u=070  imp:n=1
07738  17  0.6733980E-01  -118   619   -25    26  -567   568 u=070  imp:n=1
07739  17  0.6733980E-01  -620   618   -25    26  -567   568 u=070  imp:n=1
07740  18  0.4487970E-01  -619   620   -25    26  -567   568 u=070  imp:n=1
07741  15  0.8003452E-01  -622   621   -21    18  -565   567 u=070  imp:n=1
07742  15  0.8003452E-01  -622   621   -21    18  -568   569 u=070  imp:n=1
07743  16  0.7744373E-01  -622   621   -21    25  -567   568 u=070  imp:n=1
07744  16  0.7744373E-01  -622   621   -26    18  -567   568 u=070  imp:n=1
07745  17  0.6733980E-01  -622   623   -25    26  -567   568 u=070  imp:n=1
07746  17  0.6733980E-01  -624   621   -25    26  -567   568 u=070  imp:n=1
07747  18  0.4487970E-01  -623   624   -25    26  -567   568 u=070  imp:n=1
07748  15  0.8003452E-01  -626   625   -21    18  -565   567 u=070  imp:n=1
07749  15  0.8003452E-01  -626   625   -21    18  -568   569 u=070  imp:n=1
07750  16  0.7744373E-01  -626   625   -21    25  -567   568 u=070  imp:n=1
07751  16  0.7744373E-01  -626   625   -26    18  -567   568 u=070  imp:n=1
07752  17  0.6733980E-01  -626   627   -25    26  -567   568 u=070  imp:n=1
07753  17  0.6733980E-01  -628   625   -25    26  -567   568 u=070  imp:n=1
07754  18  0.4487970E-01  -627   628   -25    26  -567   568 u=070  imp:n=1
07755  23  0.1232400E+00  -116   115   -48    18  -565   586 u=070  imp:n=1
07756  15  0.8003452E-01  -114   629   -21    18  -565   567 u=070  imp:n=1
07757  15  0.8003452E-01  -114   629   -21    18  -568   569 u=070  imp:n=1
07758  16  0.7744373E-01  -114   629   -21    25  -567   568 u=070  imp:n=1
07759  16  0.7744373E-01  -114   629   -26    18  -567   568 u=070  imp:n=1
07760  17  0.6733980E-01  -114   630   -25    26  -567   568 u=070  imp:n=1
07761  17  0.6733980E-01  -631   629   -25    26  -567   568 u=070  imp:n=1
07762  18  0.4487970E-01  -630   631   -25    26  -567   568 u=070  imp:n=1
07763  11  0.7961518E-01  -633   632   -21    18  -565   567 u=070  imp:n=1
07764  11  0.7961518E-01  -633   632   -21    18  -571   572 u=070  imp:n=1
07765  12  0.7714468E-01  -633   632   -21    25  -567   571 u=070  imp:n=1
07766  12  0.7714468E-01  -633   632   -26    18  -567   571 u=070  imp:n=1
07767  13  0.6712964E-01  -633   634   -25    26  -567   571 u=070  imp:n=1
07768  13  0.6712964E-01  -635   632   -25    26  -567   571 u=070  imp:n=1
07769  14  0.4579853E-01  -634   635   -25    26  -567   571 u=070  imp:n=1
07770  11  0.7961518E-01  -633   632   -21    18  -572   575 u=070  imp:n=1
07771  11  0.7961518E-01  -633   632   -21    18  -576   577 u=070  imp:n=1
07772  12  0.7714468E-01  -633   632   -21    25  -575   576 u=070  imp:n=1
07773  12  0.7714468E-01  -633   632   -26    18  -575   576 u=070  imp:n=1
07774  13  0.6712964E-01  -633   634   -25    26  -575   576 u=070  imp:n=1
07775  13  0.6712964E-01  -635   632   -25    26  -575   576 u=070  imp:n=1
07776  14  0.4579853E-01  -634   635   -25    26  -575   576 u=070  imp:n=1
07777  29  0.1183522E+00  -121   106   -48    18  -577   602 u=070  imp:n=1
07778  30  0.5464445E-01  -611   615   -48    18  -565   586 u=070  imp:n=1
07779  26  0.7164290E-01  -106   120   -48    18  -565   601 u=070  imp:n=1
07780  24  0.1232187E+00  -120   119   -48    18  -586   587 u=070  imp:n=1
07781  26  0.7164290E-01  -119   118   -48    18  -565   601 u=070  imp:n=1
07782  29  0.1183522E+00  -118   117   -48    18  -569   600 u=070  imp:n=1
07783  30  0.5464445E-01  -618   622   -48    18  -565   586 u=070  imp:n=1
07784  29  0.1183522E+00  -117    94   -48    18  -569   600 u=070  imp:n=1
07785  30  0.5464445E-01  -621   626   -48    18  -565   586 u=070  imp:n=1
07786  26  0.7164290E-01   -94   116   -48    18  -565   601 u=070  imp:n=1
07787  24  0.1232187E+00  -116   115   -48    18  -586   587 u=070  imp:n=1
07788  26  0.7164290E-01  -115   114   -48    18  -565   601 u=070  imp:n=1
07789  29  0.1183522E+00  -114    86   -48    18  -577   602 u=070  imp:n=1
07790  30  0.5464445E-01  -629   633   -48    18  -565   586 u=070  imp:n=1
07791  31  0.2714513E-01   -19   604   -48    18  -602   605 u=070  imp:n=1
07792  32  0.8823003E-01   -75    17   -48    18  -605   606 u=070  imp:n=1
07793  33  0.8829426E-01   -78    17   -48    18  -606   607 u=070  imp:n=1
07794  33  0.8829426E-01   -75    80   -48    18  -606   607 u=070  imp:n=1
07795   0                  -12     9   -14     4  -563   564 u=070 imp:n=1
07796   0                  -10    13   -14     4  -563   564 u=070 imp:n=1
07797   0                  -10     9    -7    14   -81   564 u=070 imp:n=1
07798   0                 -632    17   -21    18  -563   571 u=070 imp:n=1
07799   0                 -625    94   -48    18  -563   571 u=070 imp:n=1
07800   0                 -614   106   -48    18  -563   571 u=070 imp:n=1
07801   0                 -632    17   -21    48  -565   567 u=070 imp:n=1
07802   0                 -614   106   -48    18  -565   567 u=070 imp:n=1
07803   0                 -625    94   -48    18  -565   567 u=070 imp:n=1
07804   0                 -632    17   -48    18  -565   567 u=070 imp:n=1
07805   0                 -629   633   -21    48  -563   571 u=070 imp:n=1
07806   0                 -625   114   -21    48  -563   571 u=070 imp:n=1
07807   0                 -621   626   -21    48  -563   571 u=070 imp:n=1
07808   0                 -618   622   -21    48  -563   571 u=070 imp:n=1
07809   0                 -614   118   -21    48  -563   571 u=070 imp:n=1
07810   0                  -19   121   -21    18  -565   563 u=070 imp:n=1
```

```
07811   0                -611   615   -21    48  -565   563 u=070 imp:n=1
07812   0                -614   118   -21    48  -565   563 u=070 imp:n=1
07813   0                -611   615   -21    48  -563   571 u=070 imp:n=1
07814   0                 -19   121   -21    18  -563   575 u=070 imp:n=1
07815   0                -618   622   -21    48  -565   563 u=070 imp:n=1
07816   0                -621   626   -21    48  -565   563 u=070 imp:n=1
07817   0                -625   114   -21    48  -565   563 u=070 imp:n=1
07818   0                -629   633   -21    48  -565   563 u=070 imp:n=1
07819   0                 -19    17   -14    21  -565   577 u=070 imp:n=1
07820   0                -614   106   -48    18  -567   563 u=070 imp:n=1
07821   0                -625    94   -48    18  -567   563 u=070 imp:n=1
07822   0                -632    17   -21    18  -567   563 u=070 imp:n=1
07823   0                 -10    13   -14     4   -81   563 u=070 imp:n=1
07824   0                 -12     9   -14     4   -81   563 u=070 imp:n=1
07825   0                -614   106   -48    26  -571   572 u=070 imp:n=1
07826   0                -625    94   -48    26  -571   572 u=070 imp:n=1
07827   0                -632    17   -48    26  -575   586 u=070 imp:n=1
07828   0                -625    94   -48    26  -575   569 u=070 imp:n=1
07829   0                -614   106   -48    26  -575   569 u=070 imp:n=1
07830   0                -632    17   -48    26  -571   572 u=070 imp:n=1
07831   0                -614   106   -48    26  -572   575 u=070 imp:n=1
07832   0                -625    94   -48    26  -572   575 u=070 imp:n=1
07833   0                -632    17   -25    48  -571   586 u=070 imp:n=1
07834   0                -629   633   -25    48  -571   586 u=070 imp:n=1
07835   0                -625   114   -25    48  -571   569 u=070 imp:n=1
07836   0                -621   626   -25    48  -571   586 u=070 imp:n=1
07837   0                -618   622   -25    48  -571   586 u=070 imp:n=1
07838   0                -614   118   -25    48  -571   569 u=070 imp:n=1
07839   0                -632    17   -48    26  -572   575 u=070 imp:n=1
07840   0                -632    17   -21    18  -576   577 u=070 imp:n=1
07841   0                 -19   121   -48    18  -577   602 u=070 imp:n=1
07842   0                -632    17   -25    26  -586   576 u=070 imp:n=1
07843   0                -629   633   -25    26  -586   569 u=070 imp:n=1
07844   0                -106   120   -48    18  -601   587 u=070 imp:n=1
07845   0                -119   118   -48    18  -601   587 u=070 imp:n=1
07846   0                 -94   116   -48    18  -601   587 u=070 imp:n=1
07847   0                -115   114   -48    18  -601   587 u=070 imp:n=1
07848   0                -106   118   -48    18  -587   600 u=070 imp:n=1
07849   0                 -94   114   -48    18  -587   600 u=070 imp:n=1
07850   0                -106   114   -48    18  -600   602 u=070 imp:n=1
07851   0                -621   626   -25    26  -586   569 u=070 imp:n=1
07852   0                 -86    17   -48    18  -577   602 u=070 imp:n=1
07853   0                -618   622   -25    26  -586   569 u=070 imp:n=1
07854   0                -604    17   -48    18  -602   605 u=070 imp:n=1
07855   0                 -19    75   -48    18  -605   607 u=070 imp:n=1
07856   0                -120   119   -48    18  -667   586 u=070 imp:n=1
07857   0                 -80    78   -48    18  -606   607 u=070 imp:n=1
07858   0                 -19    17   -14    48  -577   607 u=070 imp:n=1
07859   0                 -19    17   -14    18  -607   566 u=070 imp:n=1
07860   0                -611   615   -21    25  -571   569 u=070 imp:n=1
07861   0                -614   118   -21    25  -571   569 u=070 imp:n=1
07862   0                -618   622   -21    25  -571   569 u=070 imp:n=1
07863   0                -621   626   -21    25  -571   569 u=070 imp:n=1
07864   0                -625   114   -21    25  -571   569 u=070 imp:n=1
07865   0                -629   633   -21    25  -571   569 u=070 imp:n=1
07866   0                -632    17   -21    25  -571   576 u=070 imp:n=1
07867   0                -611   615   -25    26  -586   569 u=070 imp:n=1
07868   0                -611   615   -25    48  -571   586 u=070 imp:n=1
07869   0                -611   615   -26    18  -586   569 u=070 imp:n=1
07870   0                -611   633   -21    48  -569   577 u=070 imp:n=1
07871   0                -114   633   -48    18  -569   577 u=070 imp:n=1
07872   0                -611   106   -48    18  -569   577 u=070 imp:n=1
07873   0                -618   622   -26    18  -586   569 u=070 imp:n=1
07874   0                -621   626   -26    18  -586   569 u=070 imp:n=1
07875   0                -629   633   -26    18  -586   569 u=070 imp:n=1
07876   0                -614   106   -26    18  -571   569 u=070 imp:n=1
07877   0                -625    94   -26    18  -571   569 u=070 imp:n=1
07878   0                -632    17   -26    18  -571   576 u=070 imp:n=1
07879   0                 -19   121   -21    18  -575   577 u=070 imp:n=1
07880   3  0.8540120E-01   -2     1    -4     3  -564     5 u=070  imp:n=1
07881   3  0.8540120E-01   -2     1    -8     7  -564     5 u=070  imp:n=1
07882   3  0.8540120E-01   -9     1    -7     4  -564     5 u=070  imp:n=1
07883   3  0.8540120E-01   -2    10    -7     4  -564     5 u=070  imp:n=1
07884  34  0.1035093E+00  -10   608   -83     4  -609   610 u=070  imp:n=1
07885   0                 -10     9    -7     4  -564   609 u=070 imp:n=1
07886   0                 -10     9    -7     4  -610     5 u=070 imp:n=1
```

```
07887   0                  -10     9    -7    83  -609   610 u=070 imp:n=1
07888   0                 -608     9   -83     4  -609   610 u=070 imp:n=1
07889   1  0.3030146E-01    -2     1    -4     3   -81   563 u=071  imp:n=1
07890   1  0.3030146E-01    -2     1    -8     7   -81   563 u=071  imp:n=1
07891   2  0.7570860E-01    -9     1    -7     4   -81   563 u=071  imp:n=1
07892   2  0.7570860E-01    -2    10    -7     4   -81   563 u=071  imp:n=1
07893   3  0.8540120E-01    -2     1    -4     3  -563   564 u=071  imp:n=1
07894   3  0.8540120E-01    -2     1    -8     7  -563   564 u=071  imp:n=1
07895   3  0.8540120E-01    -9     1    -7     4  -563   564 u=071  imp:n=1
07896   3  0.8540120E-01    -2    10    -7     4  -563   564 u=071  imp:n=1
07897   4  0.7332760E-01   -13    12   -14     4   -81   565 u=071  imp:n=1
07898   5  0.3966184E-01   -13    12   -14     4  -566   564 u=071  imp:n=1
07899   6  0.3747366E-01   -13    19   -14    18  -565   566 u=071  imp:n=1
07900   6  0.3747366E-01   -17    12   -14    18  -565   566 u=071  imp:n=1
07901   6  0.3747366E-01   -13    12   -18     4  -565   566 u=071  imp:n=1
07902   7  0.8235419E-01   -19    63   -21    18  -565   567 u=071  imp:n=1
07903   7  0.8235419E-01   -19    63   -21    18  -568   569 u=071  imp:n=1
07904   8  0.7986135E-01   -19    63   -21    25  -567   568 u=071  imp:n=1
07905   8  0.7986135E-01   -19    63   -26    18  -567   568 u=071  imp:n=1
07906   9  0.6943934E-01   -19    65   -25    26  -567   568 u=071  imp:n=1
07907   9  0.6943934E-01   -64    63   -25    26  -567   568 u=071  imp:n=1
07908  10  0.4603587E-01   -65    64   -25    26  -567   568 u=071  imp:n=1
07909  11  0.7961518E-01   -73   570   -21    18  -565   567 u=071  imp:n=1
07910  11  0.7961518E-01   -73   570   -21    18  -571   572 u=071  imp:n=1
07911  12  0.7714468E-01   -73   570   -21    25  -567   571 u=071  imp:n=1
07912  12  0.7714468E-01   -73   570   -26    18  -567   571 u=071  imp:n=1
07913  13  0.6712964E-01   -73   573   -25    26  -567   571 u=071  imp:n=1
07914  13  0.6712964E-01  -574   570   -25    26  -567   571 u=071  imp:n=1
07915  14  0.4579853E-01  -573   574   -25    26  -567   571 u=071  imp:n=1
07916  11  0.7961518E-01   -73   570   -21    18  -572   575 u=071  imp:n=1
07917  11  0.7961518E-01   -73   570   -21    18  -576   577 u=071  imp:n=1
07918  12  0.7714468E-01   -73   570   -21    25  -575   576 u=071  imp:n=1
07919  12  0.7714468E-01   -73   570   -26    18  -575   576 u=071  imp:n=1
07920  13  0.6712964E-01   -73   573   -25    26  -575   576 u=071  imp:n=1
07921  13  0.6712964E-01  -574   570   -25    26  -575   576 u=071  imp:n=1
07922  14  0.4579853E-01  -573   574   -25    26  -575   576 u=071  imp:n=1
07923  15  0.8003452E-01  -579   578   -21    18  -565   567 u=071  imp:n=1
07924  15  0.8003452E-01  -579   578   -21    18  -568   569 u=071  imp:n=1
07925  16  0.7744373E-01  -579   578   -21    25  -567   568 u=071  imp:n=1
07926  16  0.7744373E-01  -579   578   -26    18  -567   568 u=071  imp:n=1
07927  17  0.6733980E-01  -579   580   -25    26  -567   568 u=071  imp:n=1
07928  17  0.6733980E-01  -581   578   -25    26  -567   568 u=071  imp:n=1
07929  18  0.4487970E-01  -580   581   -25    26  -567   568 u=071  imp:n=1
07930  15  0.8003452E-01  -578   637   -21    18  -565   567 u=071  imp:n=1
07931  15  0.8003452E-01  -578   637   -21    18  -568   569 u=071  imp:n=1
07932  16  0.7744373E-01  -578   637   -21    25  -567   568 u=071  imp:n=1
07933  16  0.7744373E-01  -578   637   -26    18  -567   568 u=071  imp:n=1
07934  17  0.6733980E-01  -578   859   -25    26  -567   568 u=071  imp:n=1
07935  17  0.6733980E-01  -584   637   -25    26  -567   568 u=071  imp:n=1
07936  18  0.4487970E-01  -859   584   -25    26  -567   568 u=071  imp:n=1
07937  19  0.7776510E-01  -637   639   -21    18  -565   567 u=071  imp:n=1
07938  19  0.7776510E-01  -637   639   -21    18  -571   572 u=071  imp:n=1
07939  20  0.7523151E-01  -637   639   -21    25  -567   571 u=071  imp:n=1
07940  20  0.7523151E-01  -637   639   -26    18  -567   571 u=071  imp:n=1
07941  21  0.6542969E-01  -637   640   -25    26  -567   571 u=071  imp:n=1
07942  21  0.6542969E-01  -641   639   -25    26  -567   571 u=071  imp:n=1
07943  22  0.4487471E-01  -640   641   -25    26  -567   571 u=071  imp:n=1
07944  19  0.7776510E-01  -637   639   -21    18  -572   575 u=071  imp:n=1
07945  19  0.7776510E-01  -637   639   -21    18  -576   577 u=071  imp:n=1
07946  20  0.7523151E-01  -637   639   -21    25  -575   576 u=071  imp:n=1
07947  20  0.7523151E-01  -637   639   -26    18  -575   576 u=071  imp:n=1
07948  21  0.6542969E-01  -637   640   -25    26  -575   576 u=071  imp:n=1
07949  21  0.6542969E-01  -641   639   -25    26  -575   576 u=071  imp:n=1
07950  22  0.4487471E-01  -640   641   -25    26  -575   576 u=071  imp:n=1
07951  62  0.8630075E-01   -47    46   -48    18  -565   770 u=071  imp:n=1
07952  63  0.3112637E-01   -47    46   -48    18  -771   667 u=071  imp:n=1
07953  64  0.7416011E-01   -47    46   -48   251  -770   771 u=071  imp:n=1
07954  64  0.7416011E-01   -47    46  -252    18  -770   771 u=071  imp:n=1
07955  65  0.7056425E-01   -47   415  -251   252  -770   771 u=071  imp:n=1
07956  65  0.7056425E-01  -414    46  -251   252  -770   771 u=071  imp:n=1
07957   0                 -415   414  -251   252  -770   771 u=071 imp:n=1
07958  60  0.6601119E-01   -47    46  -342   341  -667   586 u=071  imp:n=1
07959  60  0.6601119E-01   -47    46   -48   344  -667   586 u=071  imp:n=1
07960  61  0.6601310E-01   -47    46  -344   342  -774   586 u=071  imp:n=1
07961  61  0.6601310E-01   -47    46  -344   342  -667   775 u=071  imp:n=1
07962   0                  -47    46  -344   342  -775   774 u=071 imp:n=1
```

```
07963  24  0.1232187E+00   -47    46   -48    18  -586   587 u=071  imp:n=1
07964  19  0.7776510E-01   -71   588   -21    18  -565   567 u=071  imp:n=1
07965  19  0.7776510E-01   -71   588   -21    18  -571   572 u=071  imp:n=1
07966  20  0.7523151E-01   -71   588   -21    25  -567   571 u=071  imp:n=1
07967  20  0.7523151E-01   -71   588   -26    18  -567   571 u=071  imp:n=1
07968  21  0.6542969E-01   -71   589   -25    26  -567   571 u=071  imp:n=1
07969  21  0.6542969E-01  -590   588   -25    26  -567   571 u=071  imp:n=1
07970  22  0.4487471E-01  -589   590   -25    26  -567   571 u=071  imp:n=1
07971  19  0.7776510E-01   -71   588   -21    18  -572   575 u=071  imp:n=1
07972  19  0.7776510E-01   -71   588   -21    18  -576   577 u=071  imp:n=1
07973  20  0.7523151E-01   -71   588   -21    25  -575   576 u=071  imp:n=1
07974  20  0.7523151E-01   -71   588   -26    18  -575   576 u=071  imp:n=1
07975  21  0.6542969E-01   -71   589   -25    26  -575   576 u=071  imp:n=1
07976  21  0.6542969E-01  -590   588   -25    26  -575   576 u=071  imp:n=1
07977  22  0.4487471E-01  -589   590   -25    26  -575   576 u=071  imp:n=1
07978   7  0.8235419E-01  -588   860   -21    18  -565   567 u=071  imp:n=1
07979   7  0.8235419E-01  -588   860   -21    18  -568   569 u=071  imp:n=1
07980   8  0.7986135E-01  -588   860   -21    25  -567   568 u=071  imp:n=1
07981   8  0.7986135E-01  -588   860   -26    18  -567   568 u=071  imp:n=1
07982   9  0.6943934E-01  -588   643   -25    26  -567   568 u=071  imp:n=1
07983   9  0.6943934E-01  -861   860   -25    26  -567   568 u=071  imp:n=1
07984  10  0.4603587E-01  -643   861   -25    26  -567   568 u=071  imp:n=1
07985  35  0.8186756E-01  -860   642   -48    18  -565   586 u=071  imp:n=1
07986  15  0.8003452E-01  -642   644   -21    18  -565   567 u=071  imp:n=1
07987  15  0.8003452E-01  -642   644   -21    18  -568   569 u=071  imp:n=1
07988  16  0.7744373E-01  -642   644   -21    25  -567   568 u=071  imp:n=1
07989  16  0.7744373E-01  -642   644   -26    18  -567   568 u=071  imp:n=1
07990  17  0.6733980E-01  -642   645   -25    26  -567   568 u=071  imp:n=1
07991  17  0.6733980E-01  -646   644   -25    26  -567   568 u=071  imp:n=1
07992  18  0.4487970E-01  -645   646   -25    26  -567   568 u=071  imp:n=1
07993  11  0.7961518E-01  -648   647   -21    18  -565   567 u=071  imp:n=1
07994  11  0.7961518E-01  -648   647   -21    18  -571   572 u=071  imp:n=1
07995  12  0.7714468E-01  -648   647   -21    25  -567   571 u=071  imp:n=1
07996  12  0.7714468E-01  -648   647   -26    18  -567   571 u=071  imp:n=1
07997  13  0.6712964E-01  -648   649   -25    26  -567   571 u=071  imp:n=1
07998  13  0.6712964E-01  -650   647   -25    26  -567   571 u=071  imp:n=1
07999  14  0.4579853E-01  -649   650   -25    26  -567   571 u=071  imp:n=1
08000  11  0.7961518E-01  -648   647   -21    18  -572   575 u=071  imp:n=1
08001  11  0.7961518E-01  -648   647   -21    18  -576   577 u=071  imp:n=1
08002  12  0.7714468E-01  -648   647   -21    25  -575   576 u=071  imp:n=1
08003  12  0.7714468E-01  -648   647   -26    18  -575   576 u=071  imp:n=1
08004  13  0.6712964E-01  -648   649   -25    26  -575   576 u=071  imp:n=1
08005  13  0.6712964E-01  -650   647   -25    26  -575   576 u=071  imp:n=1
08006  14  0.4579853E-01  -649   650   -25    26  -575   576 u=071  imp:n=1
08007   7  0.8235419E-01   -20    17   -21    18  -565   567 u=071  imp:n=1
08008   7  0.8235419E-01   -20    17   -21    18  -568   569 u=071  imp:n=1
08009   8  0.7986135E-01   -20    17   -21    25  -567   568 u=071  imp:n=1
08010   8  0.7986135E-01   -20    17   -26    18  -567   568 u=071  imp:n=1
08011   9  0.6943934E-01   -20    28   -25    26  -567   568 u=071  imp:n=1
08012   9  0.6943934E-01   -27    17   -25    26  -567   568 u=071  imp:n=1
08013  10  0.4603587E-01   -28    27   -25    26  -567   568 u=071  imp:n=1
08014  25  0.1201037E+00   -19   599   -48    18  -569   600 u=071  imp:n=1
08015  26  0.7164290E-01   -63    73   -48    18  -565   601 u=071  imp:n=1
08016  27  0.1212447E+00   -73    72   -48    18  -577   602 u=071  imp:n=1
08017  28  0.1187656E+00  -570   579   -48    18  -565   586 u=071  imp:n=1
08018  29  0.1183522E+00   -72    51   -48    18  -577   602 u=071  imp:n=1
08019  26  0.7164290E-01   -51    47   -48    18  -565   601 u=071  imp:n=1
08020  26  0.7164290E-01   -46    71   -48    18  -565   601 u=071  imp:n=1
08021  29  0.1183522E+00   -71    69   -48    18  -577   602 u=071  imp:n=1
08022  27  0.1212447E+00   -69    29   -48    18  -577   602 u=071  imp:n=1
08023  28  0.1187656E+00  -644   648   -48    18  -565   586 u=071  imp:n=1
08024  26  0.7164290E-01   -29    20   -48    18  -565   601 u=071  imp:n=1
08025  25  0.1201037E+00   -20   603   -48    18  -569   600 u=071  imp:n=1
08026  31  0.2714513E-01   -19   604   -48    18  -602   605 u=071  imp:n=1
08027  32  0.8823003E-01   -75    17   -48    18  -605   606 u=071  imp:n=1
08028  33  0.8829426E-01   -78    17   -48    18  -606   607 u=071  imp:n=1
08029  33  0.8829426E-01   -75    80   -48    18  -606   607 u=071  imp:n=1
08030   0                  -12     9   -14     4  -563   564 u=071 imp:n=1
08031   0                  -10    13   -14     4  -563   564 u=071 imp:n=1
08032   0                  -10     9    -7    14   -81   564 u=071 imp:n=1
08033   0                 -647    29   -48    18  -563   571 u=071 imp:n=1
08034   0                 -639    51   -48    18  -563   571 u=071 imp:n=1
08035   0                  -63    73   -21    48  -565   567 u=071 imp:n=1
08036   0                 -570   579   -21    48  -565   567 u=071 imp:n=1
08037   0                 -647    20   -25    48  -567   569 u=071 imp:n=1
08038   0                 -644   648   -25    48  -567   569 u=071 imp:n=1
```

```
08039   0                -860   642   -25    48  -567   569 u=071 imp:n=1
08040   0                -639    71   -25    48  -567   576 u=071 imp:n=1
08041   0                -639    71   -21    48  -565   567 u=071 imp:n=1
08042   0                -860   642   -21    48  -565   567 u=071 imp:n=1
08043   0                -570   579   -25    48  -567   586 u=071 imp:n=1
08044   0                 -63    73   -25    48  -567   569 u=071 imp:n=1
08045   0                -647    29   -48    26  -575   667 u=071 imp:n=1
08046   0                -639    51   -48    26  -575   667 u=071 imp:n=1
08047   0                -644   648   -21    48  -565   567 u=071 imp:n=1
08048   0                -647    20   -21    48  -565   567 u=071 imp:n=1
08049   0                -639    51   -48    18  -565   567 u=071 imp:n=1
08050   0                -647    29   -48    18  -565   567 u=071 imp:n=1
08051   0                -639    51   -48    18  -567   563 u=071 imp:n=1
08052   0                -647    29   -48    18  -567   563 u=071 imp:n=1
08053   0                 -10    13   -14     4   -81   563 u=071 imp:n=1
08054   0                 -12     9   -14     4   -81   563 u=071 imp:n=1
08055   0                -570   579   -25    18  -568   569 u=071 imp:n=1
08056   0                -639    51   -48    18  -568   569 u=071 imp:n=1
08057   0                -860   642   -48    18  -568   569 u=071 imp:n=1
08058   0                -647    29   -48    18  -586   568 u=071 imp:n=1
08059   0                -644   648   -48    18  -586   568 u=071 imp:n=1
08060   0                -860   642   -48    18  -586   568 u=071 imp:n=1
08061   0                -639    51   -48    18  -586   568 u=071 imp:n=1
08062   0                -647    29  -342    18  -667   586 u=071 imp:n=1
08063   0                 -47    46  -341    18  -667   586 u=071 imp:n=1
08064   0                -639    51  -342    18  -667   586 u=071 imp:n=1
08065   0                -647    29   -48   342  -667   586 u=071 imp:n=1
08066   0                -639    51   -48   342  -667   586 u=071 imp:n=1
08067   0                -644   648   -48    18  -568   569 u=071 imp:n=1
08068   0                -647    29   -48    18  -568   569 u=071 imp:n=1
08069   0                -639    71   -21    48  -576   577 u=071 imp:n=1
08070   0                -588   648   -21    18  -576   577 u=071 imp:n=1
08071   0                 -51    47   -48    18  -601   587 u=071 imp:n=1
08072   0                 -46    71   -48    18  -601   587 u=071 imp:n=1
08073   0                -599    73   -48    18  -601   600 u=071 imp:n=1
08074   0                 -29    20   -48    18  -601   600 u=071 imp:n=1
08075   0                 -19    73   -48    18  -600   602 u=071 imp:n=1
08076   0                 -51    71   -48    18  -587   602 u=071 imp:n=1
08077   0                 -29    17   -48    18  -600   602 u=071 imp:n=1
08078   0                -604    17   -48    18  -602   605 u=071 imp:n=1
08079   0                 -19    75   -48    18  -605   607 u=071 imp:n=1
08080   0                 -80    78   -48    18  -606   607 u=071 imp:n=1
08081   0                 -19    17   -14    48  -577   607 u=071 imp:n=1
08082   0                 -19    17   -14    18  -607   566 u=071 imp:n=1
08083   0                -599    63   -48    18  -569   601 u=071 imp:n=1
08084   0                 -19    73   -21    48  -569   577 u=071 imp:n=1
08085   0                -570   579   -25    18  -586   568 u=071 imp:n=1
08086   0                -570   637   -21    18  -569   577 u=071 imp:n=1
08087   0                -639    51   -48    18  -569   577 u=071 imp:n=1
08088   0                -647    29   -48    18  -572   575 u=071 imp:n=1
08089   0                -639    51   -48    18  -572   575 u=071 imp:n=1
08090   0                -647    29   -48    18  -569   577 u=071 imp:n=1
08091   0                -603    17   -48    18  -569   600 u=071 imp:n=1
08092   0                -588   648   -21    18  -569   576 u=071 imp:n=1
08093   0                -647    17   -21    48  -569   577 u=071 imp:n=1
08094   0                 -63    73   -21    25  -567   569 u=071 imp:n=1
08095   0                -570   579   -21    25  -567   569 u=071 imp:n=1
08096   0                -639    71   -21    25  -567   576 u=071 imp:n=1
08097   0                -860   642   -21    25  -567   569 u=071 imp:n=1
08098   0                -644   648   -21    25  -567   569 u=071 imp:n=1
08099   0                -647    20   -21    25  -567   569 u=071 imp:n=1
08100   0                -647    29   -48    18  -571   572 u=071 imp:n=1
08101   0                -639    51   -48    18  -571   572 u=071 imp:n=1
08102   0                 -19    17   -14    21  -565   577 u=071 imp:n=1
08103   0                -639    51   -26    18  -575   667 u=071 imp:n=1
08104   0                -647    29   -26    18  -575   667 u=071 imp:n=1
08105   3  0.8540120E-01   -2     1    -4     3  -564     5 u=071  imp:n=1
08106   3  0.8540120E-01   -2     1    -8     7  -564     5 u=071  imp:n=1
08107   3  0.8540120E-01   -9     1    -7     4  -564     5 u=071  imp:n=1
08108   3  0.8540120E-01   -2    10    -7     4  -564     5 u=071  imp:n=1
08109  34  0.1035093E+00  -10   608   -83     4  -609   610 u=071  imp:n=1
08110   0                 -10     9    -7     4  -564   609 u=071 imp:n=1
08111   0                 -10     9    -7     4  -610     5 u=071 imp:n=1
08112   0                 -10     9    -7    83  -609   610 u=071 imp:n=1
08113   0                -608     9   -83     4  -609   610 u=071 imp:n=1
08114   1  0.3030146E-01   -2     1    -4     3    -6     5 u=072  imp:n=1
```

```
08115   1  0.3030146E-01    -2     1    -8     7    -6     5 u=072  imp:n=1
08116   2  0.7570860E-01    -9     1    -7     4    -6     5 u=072  imp:n=1
08117   2  0.7570860E-01    -2    10    -7     4    -6     5 u=072  imp:n=1
08118   3  0.8540120E-01    -2     1    -4     3  -862     6 u=072  imp:n=1
08119   3  0.8540120E-01    -2     1    -8     7  -862     6 u=072  imp:n=1
08120   3  0.8540120E-01    -9     1    -7     4  -862     6 u=072  imp:n=1
08121   3  0.8540120E-01    -2    10    -7     4  -862     6 u=072  imp:n=1
08122  93  0.8072345E-01  -864   863  -865     4  -866     5 u=072  imp:n=1
08123  94  0.8394017E-01  -202   863  -865   867  -862   866 u=072  imp:n=1
08124  94  0.8394017E-01  -864   201  -865   867  -862   866 u=072  imp:n=1
08125  95  0.8393843E-01  -864   863  -867     4  -862   866 u=072  imp:n=1
08126   7  0.8235419E-01  -869   868  -865   867  -870   866 u=072  imp:n=1
08127   7  0.8235419E-01  -869   868  -865   867  -872   871 u=072  imp:n=1
08128   8  0.7986135E-01  -869   868  -865   873  -871   870 u=072  imp:n=1
08129   8  0.7986135E-01  -869   868  -874   867  -871   870 u=072  imp:n=1
08130   9  0.6943934E-01  -875   868  -873   874  -871   870 u=072  imp:n=1
08131   9  0.6943934E-01  -869   876  -873   874  -871   870 u=072  imp:n=1
08132  10  0.4603587E-01  -876   875  -873   874  -871   870 u=072  imp:n=1
08133   7  0.8235419E-01  -877   869  -865   867  -870   866 u=072  imp:n=1
08134   7  0.8235419E-01  -877   869  -865   867  -872   871 u=072  imp:n=1
08135   8  0.7986135E-01  -877   869  -865   873  -871   870 u=072  imp:n=1
08136   8  0.7986135E-01  -877   869  -874   867  -871   870 u=072  imp:n=1
08137   9  0.6943934E-01  -878   869  -873   874  -871   870 u=072  imp:n=1
08138   9  0.6943934E-01  -877   879  -873   874  -871   870 u=072  imp:n=1
08139  10  0.4603587E-01  -879   878  -873   874  -871   870 u=072  imp:n=1
08140  15  0.8003452E-01  -881   880  -865   867  -870   866 u=072  imp:n=1
08141  15  0.8003452E-01  -881   880  -865   867  -872   871 u=072  imp:n=1
08142  16  0.7744373E-01  -881   880  -865   873  -871   870 u=072  imp:n=1
08143  16  0.7744373E-01  -881   880  -874   867  -871   870 u=072  imp:n=1
08144  17  0.6733980E-01  -882   880  -873   874  -871   870 u=072  imp:n=1
08145  17  0.6733980E-01  -881   883  -873   874  -871   870 u=072  imp:n=1
08146  18  0.4487970E-01  -883   882  -873   874  -871   870 u=072  imp:n=1
08147   7  0.8235419E-01  -885   884  -865   867  -870   866 u=072  imp:n=1
08148   7  0.8235419E-01  -885   884  -865   867  -872   871 u=072  imp:n=1
08149   8  0.7986135E-01  -885   884  -865   873  -871   870 u=072  imp:n=1
08150   8  0.7986135E-01  -885   884  -874   867  -871   870 u=072  imp:n=1
08151   9  0.6943934E-01  -886   884  -873   874  -871   870 u=072  imp:n=1
08152   9  0.6943934E-01  -885   887  -873   874  -871   870 u=072  imp:n=1
08153  10  0.4603587E-01  -887   886  -873   874  -871   870 u=072  imp:n=1
08154   7  0.8235419E-01  -888   885  -865   867  -870   866 u=072  imp:n=1
08155   7  0.8235419E-01  -888   885  -865   867  -872   871 u=072  imp:n=1
08156   8  0.7986135E-01  -888   885  -865   873  -871   870 u=072  imp:n=1
08157   8  0.7986135E-01  -888   885  -874   867  -871   870 u=072  imp:n=1
08158   9  0.6943934E-01  -889   885  -873   874  -871   870 u=072  imp:n=1
08159   9  0.6943934E-01  -888   890  -873   874  -871   870 u=072  imp:n=1
08160  10  0.4603587E-01  -890   889  -873   874  -871   870 u=072  imp:n=1
08161  23  0.1232400E+00  -892   891  -893   867  -894   866 u=072  imp:n=1
08162  24  0.1232187E+00  -892   891  -893   867  -895   894 u=072  imp:n=1
08163   7  0.8235419E-01  -897   896  -865   867  -870   866 u=072  imp:n=1
08164   7  0.8235419E-01  -897   896  -865   867  -872   871 u=072  imp:n=1
08165   8  0.7986135E-01  -897   896  -865   873  -871   870 u=072  imp:n=1
08166   8  0.7986135E-01  -897   896  -874   867  -871   870 u=072  imp:n=1
08167   9  0.6943934E-01  -898   896  -873   874  -871   870 u=072  imp:n=1
08168   9  0.6943934E-01  -897   899  -873   874  -871   870 u=072  imp:n=1
08169  10  0.4603587E-01  -899   898  -873   874  -871   870 u=072  imp:n=1
08170   7  0.8235419E-01  -900   897  -865   867  -870   866 u=072  imp:n=1
08171   7  0.8235419E-01  -900   897  -865   867  -872   871 u=072  imp:n=1
08172   8  0.7986135E-01  -900   897  -865   873  -871   870 u=072  imp:n=1
08173   8  0.7986135E-01  -900   897  -874   867  -871   870 u=072  imp:n=1
08174   9  0.6943934E-01  -901   897  -873   874  -871   870 u=072  imp:n=1
08175   9  0.6943934E-01  -900   902  -873   874  -871   870 u=072  imp:n=1
08176  10  0.4603587E-01  -902   901  -873   874  -871   870 u=072  imp:n=1
08177  15  0.8003452E-01  -904   903  -865   867  -870   866 u=072  imp:n=1
08178  15  0.8003452E-01  -904   903  -865   867  -872   871 u=072  imp:n=1
08179  16  0.7744373E-01  -904   903  -865   873  -871   870 u=072  imp:n=1
08180  16  0.7744373E-01  -904   903  -874   867  -871   870 u=072  imp:n=1
08181  17  0.6733980E-01  -905   903  -873   874  -871   870 u=072  imp:n=1
08182  17  0.6733980E-01  -904   906  -873   874  -871   870 u=072  imp:n=1
08183  18  0.4487970E-01  -906   905  -873   874  -871   870 u=072  imp:n=1
08184   7  0.8235419E-01  -908   907  -865   867  -870   866 u=072  imp:n=1
08185   7  0.8235419E-01  -908   907  -865   867  -872   871 u=072  imp:n=1
08186   8  0.7986135E-01  -908   907  -865   873  -871   870 u=072  imp:n=1
08187   8  0.7986135E-01  -908   907  -874   867  -871   870 u=072  imp:n=1
08188   9  0.6943934E-01  -909   907  -873   874  -871   870 u=072  imp:n=1
08189   9  0.6943934E-01  -908   910  -873   874  -871   870 u=072  imp:n=1
08190  10  0.4603587E-01  -910   909  -873   874  -871   870 u=072  imp:n=1
```

```
08191   7  0.8235419E-01  -911   908  -865   867  -870   866 u=072  imp:n=1
08192   7  0.8235419E-01  -911   908  -865   867  -872   871 u=072  imp:n=1
08193   8  0.7986135E-01  -911   908  -865   873  -871   870 u=072  imp:n=1
08194   8  0.7986135E-01  -911   908  -874   867  -871   870 u=072  imp:n=1
08195   9  0.6943934E-01  -912   908  -873   874  -871   870 u=072  imp:n=1
08196   9  0.6943934E-01  -911   913  -873   874  -871   870 u=072  imp:n=1
08197  10  0.4603587E-01  -913   912  -873   874  -871   870 u=072  imp:n=1
08198  53  0.8228339E-01  -263   202  -893   867  -915   914 u=072  imp:n=1
08199  54  0.2192774E-01  -263   202  -893   867  -916   241 u=072  imp:n=1
08200  55  0.7070584E-01  -263   202  -893   917  -241   915 u=072  imp:n=1
08201  55  0.7070584E-01  -263   202  -918   867  -241   915 u=072  imp:n=1
08202  56  0.6618348E-01  -266   202  -917   918  -241   915 u=072  imp:n=1
08203  56  0.6618348E-01  -263   267  -917   918  -241   915 u=072  imp:n=1
08204   0                 -267   266  -917   918  -241   915 u=072 imp:n=1
08205  53  0.8228339E-01  -117   263  -893   867  -915   914 u=072  imp:n=1
08206  54  0.2192774E-01  -117   263  -893   867  -916   241 u=072  imp:n=1
08207  55  0.7070584E-01  -117   263  -893   917  -241   915 u=072  imp:n=1
08208  55  0.7070584E-01  -117   263  -918   867  -241   915 u=072  imp:n=1
08209  56  0.6618348E-01  -268   263  -917   918  -241   915 u=072  imp:n=1
08210  56  0.6618348E-01  -117   269  -917   918  -241   915 u=072  imp:n=1
08211   0                 -269   268  -917   918  -241   915 u=072 imp:n=1
08212  53  0.8228339E-01  -247   117  -893   867  -915   914 u=072  imp:n=1
08213  54  0.2192774E-01  -247   117  -893   867  -916   241 u=072  imp:n=1
08214  55  0.7070584E-01  -247   117  -893   917  -241   915 u=072  imp:n=1
08215  55  0.7070584E-01  -247   117  -918   867  -241   915 u=072  imp:n=1
08216  56  0.6618348E-01  -253   117  -917   918  -241   915 u=072  imp:n=1
08217  56  0.6618348E-01  -247   254  -917   918  -241   915 u=072  imp:n=1
08218   0                 -254   253  -917   918  -241   915 u=072 imp:n=1
08219  53  0.8228339E-01  -201   247  -893   867  -915   914 u=072  imp:n=1
08220  54  0.2192774E-01  -201   247  -893   867  -916   241 u=072  imp:n=1
08221  55  0.7070584E-01  -201   247  -893   917  -241   915 u=072  imp:n=1
08222  55  0.7070584E-01  -201   247  -918   867  -241   915 u=072  imp:n=1
08223  56  0.6618348E-01  -255   247  -917   918  -241   915 u=072  imp:n=1
08224  56  0.6618348E-01  -201   256  -917   918  -241   915 u=072  imp:n=1
08225   0                 -256   255  -917   918  -241   915 u=072 imp:n=1
08226  53  0.8228339E-01  -263   202  -893   867  -919   916 u=072  imp:n=1
08227  54  0.2192774E-01  -263   202  -893   867  -921   920 u=072  imp:n=1
08228  55  0.7070584E-01  -263   202  -893   917  -920   919 u=072  imp:n=1
08229  55  0.7070584E-01  -263   202  -918   867  -920   919 u=072  imp:n=1
08230  56  0.6618348E-01  -266   202  -917   918  -920   919 u=072  imp:n=1
08231  56  0.6618348E-01  -263   267  -917   918  -920   919 u=072  imp:n=1
08232   0                 -267   266  -917   918  -920   919 u=072 imp:n=1
08233  53  0.8228339E-01  -117   263  -893   867  -919   916 u=072  imp:n=1
08234  54  0.2192774E-01  -117   263  -893   867  -921   920 u=072  imp:n=1
08235  55  0.7070584E-01  -117   263  -893   917  -920   919 u=072  imp:n=1
08236  55  0.7070584E-01  -117   263  -918   867  -920   919 u=072  imp:n=1
08237  56  0.6618348E-01  -268   263  -917   918  -920   919 u=072  imp:n=1
08238  56  0.6618348E-01  -117   269  -917   918  -920   919 u=072  imp:n=1
08239   0                 -269   268  -917   918  -920   919 u=072 imp:n=1
08240  53  0.8228339E-01  -247   117  -893   867  -919   916 u=072  imp:n=1
08241  54  0.2192774E-01  -247   117  -893   867  -921   920 u=072  imp:n=1
08242  55  0.7070584E-01  -247   117  -893   917  -920   919 u=072  imp:n=1
08243  55  0.7070584E-01  -247   117  -918   867  -920   919 u=072  imp:n=1
08244  56  0.6618348E-01  -253   117  -917   918  -920   919 u=072  imp:n=1
08245  56  0.6618348E-01  -247   254  -917   918  -920   919 u=072  imp:n=1
08246   0                 -254   253  -917   918  -920   919 u=072 imp:n=1
08247  53  0.8228339E-01  -201   247  -893   867  -919   916 u=072  imp:n=1
08248  54  0.2192774E-01  -201   247  -893   867  -921   920 u=072  imp:n=1
08249  55  0.7070584E-01  -201   247  -893   917  -920   919 u=072  imp:n=1
08250  55  0.7070584E-01  -201   247  -918   867  -920   919 u=072  imp:n=1
08251  56  0.6618348E-01  -255   247  -917   918  -920   919 u=072  imp:n=1
08252  56  0.6618348E-01  -201   256  -917   918  -920   919 u=072  imp:n=1
08253   0                 -256   255  -917   918  -920   919 u=072 imp:n=1
08254  53  0.8228339E-01  -263   202  -893   867  -922   921 u=072  imp:n=1
08255  54  0.2192774E-01  -263   202  -893   867  -924   923 u=072  imp:n=1
08256  55  0.7070584E-01  -263   202  -893   917  -923   922 u=072  imp:n=1
08257  55  0.7070584E-01  -263   202  -918   867  -923   922 u=072  imp:n=1
08258  56  0.6618348E-01  -266   202  -917   918  -923   922 u=072  imp:n=1
08259  56  0.6618348E-01  -263   267  -917   918  -923   922 u=072  imp:n=1
08260   0                 -267   266  -917   918  -923   922 u=072 imp:n=1
08261  53  0.8228339E-01  -117   263  -893   867  -922   921 u=072  imp:n=1
08262  54  0.2192774E-01  -117   263  -893   867  -924   923 u=072  imp:n=1
08263  55  0.7070584E-01  -117   263  -893   917  -923   922 u=072  imp:n=1
08264  55  0.7070584E-01  -117   263  -918   867  -923   922 u=072  imp:n=1
08265  56  0.6618348E-01  -268   263  -917   918  -923   922 u=072  imp:n=1
08266  56  0.6618348E-01  -117   269  -917   918  -923   922 u=072  imp:n=1
```

```
08267   0                -269   268  -917   918  -923   922 u=072 imp:n=1
08268  53  0.8228339E-01 -247   117  -893   867  -922   921 u=072  imp:n=1
08269  54  0.2192774E-01 -247   117  -893   867  -924   923 u=072  imp:n=1
08270  55  0.7070584E-01 -247   117  -893   917  -923   922 u=072  imp:n=1
08271  55  0.7070584E-01 -247   117  -918   867  -923   922 u=072  imp:n=1
08272  56  0.6618348E-01 -253   117  -917   918  -923   922 u=072  imp:n=1
08273  56  0.6618348E-01 -247   254  -917   918  -923   922 u=072  imp:n=1
08274   0                -254   253  -917   918  -923   922 u=072 imp:n=1
08275  53  0.8228339E-01 -201   247  -893   867  -922   921 u=072  imp:n=1
08276  54  0.2192774E-01 -201   247  -893   867  -924   923 u=072  imp:n=1
08277  55  0.7070584E-01 -201   247  -893   917  -923   922 u=072  imp:n=1
08278  55  0.7070584E-01 -201   247  -918   867  -923   922 u=072  imp:n=1
08279  56  0.6618348E-01 -255   247  -917   918  -923   922 u=072  imp:n=1
08280  56  0.6618348E-01 -201   256  -917   918  -923   922 u=072  imp:n=1
08281   0                -256   255  -917   918  -923   922 u=072 imp:n=1
08282  34  0.1035093E+00 -201   202  -893   867  -925   924 u=072  imp:n=1
08283  26  0.7164290E-01 -868   926  -893   867  -927   866 u=072  imp:n=1
08284  29  0.1183522E+00 -928   868  -893   867  -914   872 u=072  imp:n=1
08285  28  0.1187656E+00 -880   877  -893   867  -894   866 u=072  imp:n=1
08286  27  0.1212447E+00 -929   928  -893   867  -914   872 u=072  imp:n=1
08287  30  0.5464445E-01 -884   881  -893   867  -894   866 u=072  imp:n=1
08288  26  0.7164290E-01 -930   892  -893   867  -927   866 u=072  imp:n=1
08289  26  0.7164290E-01 -896   930  -893   867  -927   866 u=072  imp:n=1
08290  27  0.1212447E+00 -931   896  -893   867  -914   872 u=072  imp:n=1
08291  30  0.5464445E-01 -903   900  -893   867  -894   866 u=072  imp:n=1
08292  28  0.1187656E+00 -907   904  -893   867  -894   866 u=072  imp:n=1
08293  29  0.1183522E+00 -932   931  -893   867  -914   872 u=072  imp:n=1
08294  26  0.7164290E-01 -933   911  -893   867  -927   866 u=072  imp:n=1
08295   0                -863     9  -865     4  -862     6 u=072 imp:n=1
08296   0                 -10   864  -865     4  -862     6 u=072 imp:n=1
08297   0                 -10     9    -7   865  -862     5 u=072 imp:n=1
08298   0                -868   202  -865   893  -872     6 u=072 imp:n=1
08299   0                -926   202  -893   867  -927     6 u=072 imp:n=1
08300   0                -880   877  -873   867  -871   894 u=072 imp:n=1
08301   0                -880   877  -873   893  -894   870 u=072 imp:n=1
08302   0                -884   881  -873   867  -871   894 u=072 imp:n=1
08303   0                -884   881  -873   893  -894   870 u=072 imp:n=1
08304   0                -896   888  -865   893  -872     6 u=072 imp:n=1
08305   0                -903   900  -873   867  -871   894 u=072 imp:n=1
08306   0                -907   904  -873   867  -871   894 u=072 imp:n=1
08307   0                -201   911  -865   893  -872     6 u=072 imp:n=1
08308   0                -891   888  -893   874  -871   870 u=072 imp:n=1
08309   0                -201   933  -893   867  -870   866 u=072 imp:n=1
08310   0                -891   888  -893   867  -870   866 u=072 imp:n=1
08311   0                -201   933  -893   874  -871   870 u=072 imp:n=1
08312   0                -907   904  -865   893  -870   866 u=072 imp:n=1
08313   0                -903   900  -873   893  -894   870 u=072 imp:n=1
08314   0                -907   904  -873   893  -894   870 u=072 imp:n=1
08315   0                -903   900  -865   893  -870   866 u=072 imp:n=1
08316   0                -884   881  -865   893  -870   866 u=072 imp:n=1
08317   0                -880   877  -865   893  -870   866 u=072 imp:n=1
08318   0                -201   911  -865   893    -6   866 u=072 imp:n=1
08319   0                -896   888  -865   893    -6   866 u=072 imp:n=1
08320   0                -926   202  -893   867    -6   866 u=072 imp:n=1
08321   0                -891   888  -874   867  -871   870 u=072 imp:n=1
08322   0                -868   202  -865   893    -6   866 u=072 imp:n=1
08323   0                 -10   864  -865     4    -6     5 u=072 imp:n=1
08324   0                -201   933  -874   867  -871   870 u=072 imp:n=1
08325   0                -863     9  -865     4    -6     5 u=072 imp:n=1
08326   0                -891   888  -893   867  -872   871 u=072 imp:n=1
08327   0                -907   904  -865   867  -872   871 u=072 imp:n=1
08328   0                -880   877  -865   873  -871   870 u=072 imp:n=1
08329   0                -884   881  -865   873  -871   870 u=072 imp:n=1
08330   0                -903   900  -865   867  -872   871 u=072 imp:n=1
08331   0                -903   900  -865   873  -871   870 u=072 imp:n=1
08332   0                -907   904  -865   873  -871   870 u=072 imp:n=1
08333   0                -884   881  -865   867  -872   871 u=072 imp:n=1
08334   0                -201   202  -865   893  -925   872 u=072 imp:n=1
08335   0                -868   202  -893   867  -914   927 u=072 imp:n=1
08336   0                -896   929  -893   867  -914   895 u=072 imp:n=1
08337   0                -201   932  -893   867  -914   927 u=072 imp:n=1
08338   0                -880   877  -865   867  -872   871 u=072 imp:n=1
08339   0                -201   933  -893   867  -927   871 u=072 imp:n=1
08340   0                -911   932  -893   867  -927   872 u=072 imp:n=1
08341   0                -201   202  -865   867  -862   925 u=072 imp:n=1
08342   0                -896   892  -893   867  -895   927 u=072 imp:n=1
```

```
08343   0                  -891   929  -893   867  -895   872 u=072 imp:n=1
08344   3  0.8540120E-01     -2     1    -4     3   -81   862 u=072  imp:n=1
08345   3  0.8540120E-01     -2     1    -8     7   -81   862 u=072  imp:n=1
08346   3  0.8540120E-01     -9     1    -7     4   -81   862 u=072  imp:n=1
08347   3  0.8540120E-01     -2    10    -7     4   -81   862 u=072  imp:n=1
08348  96  0.8381299E-01   -935   934   -83     4  -936   862 u=072  imp:n=1
08349   0                   -10     9    -7     4   -81   936 u=072 imp:n=1
08350   0                   -10     9    -7    83  -936   862 u=072 imp:n=1
08351   0                  -934     9   -83     4  -936   862 u=072 imp:n=1
08352   0                   -10   935   -83     4  -936   862 u=072 imp:n=1
08353   1  0.3030146E-01     -2     1    -4     3   -81   563 u=073  imp:n=1
08354   1  0.3030146E-01     -2     1    -8     7   -81   563 u=073  imp:n=1
08355   2  0.7570860E-01     -9     1    -7     4   -81   563 u=073  imp:n=1
08356   2  0.7570860E-01     -2    10    -7     4   -81   563 u=073  imp:n=1
08357   3  0.8540120E-01     -2     1    -4     3  -563   937 u=073  imp:n=1
08358   3  0.8540120E-01     -2     1    -8     7  -563   937 u=073  imp:n=1
08359   3  0.8540120E-01     -9     1    -7     4  -563   937 u=073  imp:n=1
08360   3  0.8540120E-01     -2    10    -7     4  -563   937 u=073  imp:n=1
08361  93  0.8072345E-01   -864   863  -865     4   -81   938 u=073  imp:n=1
08362  94  0.8394017E-01   -864   201  -865   867  -938   937 u=073  imp:n=1
08363  94  0.8394017E-01   -202   863  -865   867  -938   937 u=073  imp:n=1
08364  95  0.8393843E-01   -864   863  -867     4  -938   937 u=073  imp:n=1
08365   7  0.8235419E-01   -911   908  -865   867  -938   939 u=073  imp:n=1
08366   7  0.8235419E-01   -911   908  -865   867  -940   941 u=073  imp:n=1
08367   8  0.7986135E-01   -911   908  -865   873  -939   940 u=073  imp:n=1
08368   8  0.7986135E-01   -911   908  -874   867  -939   940 u=073  imp:n=1
08369   9  0.6943934E-01   -911   913  -873   874  -939   940 u=073  imp:n=1
08370   9  0.6943934E-01   -912   908  -873   874  -939   940 u=073  imp:n=1
08371  10  0.4603587E-01   -913   912  -873   874  -939   940 u=073  imp:n=1
08372   7  0.8235419E-01   -908   907  -865   867  -938   939 u=073  imp:n=1
08373   7  0.8235419E-01   -908   907  -865   867  -940   941 u=073  imp:n=1
08374   8  0.7986135E-01   -908   907  -865   873  -939   940 u=073  imp:n=1
08375   8  0.7986135E-01   -908   907  -874   867  -939   940 u=073  imp:n=1
08376   9  0.6943934E-01   -908   910  -873   874  -939   940 u=073  imp:n=1
08377   9  0.6943934E-01   -909   907  -873   874  -939   940 u=073  imp:n=1
08378  10  0.4603587E-01   -910   909  -873   874  -939   940 u=073  imp:n=1
08379  15  0.8003452E-01   -904   903  -865   867  -938   939 u=073  imp:n=1
08380  15  0.8003452E-01   -904   903  -865   867  -940   941 u=073  imp:n=1
08381  16  0.7744373E-01   -904   903  -865   873  -939   940 u=073  imp:n=1
08382  16  0.7744373E-01   -904   903  -874   867  -939   940 u=073  imp:n=1
08383  17  0.6733980E-01   -904   906  -873   874  -939   940 u=073  imp:n=1
08384  17  0.6733980E-01   -905   903  -873   874  -939   940 u=073  imp:n=1
08385  18  0.4487970E-01   -906   905  -873   874  -939   940 u=073  imp:n=1
08386   7  0.8235419E-01   -900   897  -865   867  -938   939 u=073  imp:n=1
08387   7  0.8235419E-01   -900   897  -865   867  -940   941 u=073  imp:n=1
08388   8  0.7986135E-01   -900   897  -865   873  -939   940 u=073  imp:n=1
08389   8  0.7986135E-01   -900   897  -874   867  -939   940 u=073  imp:n=1
08390   9  0.6943934E-01   -900   902  -873   874  -939   940 u=073  imp:n=1
08391   9  0.6943934E-01   -901   897  -873   874  -939   940 u=073  imp:n=1
08392  10  0.4603587E-01   -902   901  -873   874  -939   940 u=073  imp:n=1
08393   7  0.8235419E-01   -897   896  -865   867  -938   939 u=073  imp:n=1
08394   7  0.8235419E-01   -897   896  -865   867  -940   941 u=073  imp:n=1
08395   8  0.7986135E-01   -897   896  -865   873  -939   940 u=073  imp:n=1
08396   8  0.7986135E-01   -897   896  -874   867  -939   940 u=073  imp:n=1
08397   9  0.6943934E-01   -897   899  -873   874  -939   940 u=073  imp:n=1
08398   9  0.6943934E-01   -898   896  -873   874  -939   940 u=073  imp:n=1
08399  10  0.4603587E-01   -899   898  -873   874  -939   940 u=073  imp:n=1
08400  23  0.1232400E+00   -943   942  -893   867  -938   944 u=073  imp:n=1
08401  24  0.1232187E+00   -943   942  -893   867  -944   945 u=073  imp:n=1
08402   7  0.8235419E-01   -888   885  -865   867  -938   939 u=073  imp:n=1
08403   7  0.8235419E-01   -888   885  -865   867  -940   941 u=073  imp:n=1
08404   8  0.7986135E-01   -888   885  -865   873  -939   940 u=073  imp:n=1
08405   8  0.7986135E-01   -888   885  -874   867  -939   940 u=073  imp:n=1
08406   9  0.6943934E-01   -888   890  -873   874  -939   940 u=073  imp:n=1
08407   9  0.6943934E-01   -889   885  -873   874  -939   940 u=073  imp:n=1
08408  10  0.4603587E-01   -890   889  -873   874  -939   940 u=073  imp:n=1
08409   7  0.8235419E-01   -885   884  -865   867  -938   939 u=073  imp:n=1
08410   7  0.8235419E-01   -885   884  -865   867  -940   941 u=073  imp:n=1
08411   8  0.7986135E-01   -885   884  -865   873  -939   940 u=073  imp:n=1
08412   8  0.7986135E-01   -885   884  -874   867  -939   940 u=073  imp:n=1
08413   9  0.6943934E-01   -885   887  -873   874  -939   940 u=073  imp:n=1
08414   9  0.6943934E-01   -886   884  -873   874  -939   940 u=073  imp:n=1
08415  10  0.4603587E-01   -887   886  -873   874  -939   940 u=073  imp:n=1
08416  15  0.8003452E-01   -881   880  -865   867  -938   939 u=073  imp:n=1
08417  15  0.8003452E-01   -881   880  -865   867  -940   941 u=073  imp:n=1
08418  16  0.7744373E-01   -881   880  -865   873  -939   940 u=073  imp:n=1
```

```
08419  16  0.7744373E-01  -881   880  -874   867  -939   940 u=073  imp:n=1
08420  17  0.6733980E-01  -881   883  -873   874  -939   940 u=073  imp:n=1
08421  17  0.6733980E-01  -882   880  -873   874  -939   940 u=073  imp:n=1
08422  18  0.4487970E-01  -883   882  -873   874  -939   940 u=073  imp:n=1
08423   7  0.8235419E-01  -877   869  -865   867  -938   939 u=073  imp:n=1
08424   7  0.8235419E-01  -877   869  -865   867  -940   941 u=073  imp:n=1
08425   8  0.7986135E-01  -877   869  -865   873  -939   940 u=073  imp:n=1
08426   8  0.7986135E-01  -877   869  -874   867  -939   940 u=073  imp:n=1
08427   9  0.6943934E-01  -877   879  -873   874  -939   940 u=073  imp:n=1
08428   9  0.6943934E-01  -878   869  -873   874  -939   940 u=073  imp:n=1
08429  10  0.4603587E-01  -879   878  -873   874  -939   940 u=073  imp:n=1
08430   7  0.8235419E-01  -869   868  -865   867  -938   939 u=073  imp:n=1
08431   7  0.8235419E-01  -869   868  -865   867  -940   941 u=073  imp:n=1
08432   8  0.7986135E-01  -869   868  -865   873  -939   940 u=073  imp:n=1
08433   8  0.7986135E-01  -869   868  -874   867  -939   940 u=073  imp:n=1
08434   9  0.6943934E-01  -869   876  -873   874  -939   940 u=073  imp:n=1
08435   9  0.6943934E-01  -875   868  -873   874  -939   940 u=073  imp:n=1
08436  10  0.4603587E-01  -876   875  -873   874  -939   940 u=073  imp:n=1
08437  53  0.8228339E-01  -201   247  -893   867  -946   947 u=073  imp:n=1
08438  54  0.2192774E-01  -201   247  -893   867  -764   948 u=073  imp:n=1
08439  55  0.7070584E-01  -201   247  -893   917  -947   764 u=073  imp:n=1
08440  55  0.7070584E-01  -201   247  -918   867  -947   764 u=073  imp:n=1
08441  56  0.6618348E-01  -201   256  -917   918  -947   764 u=073  imp:n=1
08442  56  0.6618348E-01  -255   247  -917   918  -947   764 u=073  imp:n=1
08443   0                 -256   255  -917   918  -947   764 u=073 imp:n=1
08444  53  0.8228339E-01  -247   117  -893   867  -946   947 u=073  imp:n=1
08445  54  0.2192774E-01  -247   117  -893   867  -764   948 u=073  imp:n=1
08446  55  0.7070584E-01  -247   117  -893   917  -947   764 u=073  imp:n=1
08447  55  0.7070584E-01  -247   117  -918   867  -947   764 u=073  imp:n=1
08448  56  0.6618348E-01  -247   254  -917   918  -947   764 u=073  imp:n=1
08449  56  0.6618348E-01  -253   117  -917   918  -947   764 u=073  imp:n=1
08450   0                 -254   253  -917   918  -947   764 u=073 imp:n=1
08451  53  0.8228339E-01  -117   263  -893   867  -946   947 u=073  imp:n=1
08452  54  0.2192774E-01  -117   263  -893   867  -764   948 u=073  imp:n=1
08453  55  0.7070584E-01  -117   263  -893   917  -947   764 u=073  imp:n=1
08454  55  0.7070584E-01  -117   263  -918   867  -947   764 u=073  imp:n=1
08455  56  0.6618348E-01  -117   269  -917   918  -947   764 u=073  imp:n=1
08456  56  0.6618348E-01  -268   263  -917   918  -947   764 u=073  imp:n=1
08457   0                 -269   268  -917   918  -947   764 u=073 imp:n=1
08458  53  0.8228339E-01  -263   202  -893   867  -946   947 u=073  imp:n=1
08459  54  0.2192774E-01  -263   202  -893   867  -764   948 u=073  imp:n=1
08460  55  0.7070584E-01  -263   202  -893   917  -947   764 u=073  imp:n=1
08461  55  0.7070584E-01  -263   202  -918   867  -947   764 u=073  imp:n=1
08462  56  0.6618348E-01  -263   267  -917   918  -947   764 u=073  imp:n=1
08463  56  0.6618348E-01  -266   202  -917   918  -947   764 u=073  imp:n=1
08464   0                 -267   266  -917   918  -947   764 u=073 imp:n=1
08465  53  0.8228339E-01  -201   247  -893   867  -948   949 u=073  imp:n=1
08466  54  0.2192774E-01  -201   247  -893   867  -950   951 u=073  imp:n=1
08467  55  0.7070584E-01  -201   247  -893   917  -949   950 u=073  imp:n=1
08468  55  0.7070584E-01  -201   247  -918   867  -949   950 u=073  imp:n=1
08469  56  0.6618348E-01  -201   256  -917   918  -949   950 u=073  imp:n=1
08470  56  0.6618348E-01  -255   247  -917   918  -949   950 u=073  imp:n=1
08471   0                 -256   255  -917   918  -949   950 u=073 imp:n=1
08472  53  0.8228339E-01  -247   117  -893   867  -948   949 u=073  imp:n=1
08473  54  0.2192774E-01  -247   117  -893   867  -950   951 u=073  imp:n=1
08474  55  0.7070584E-01  -247   117  -893   917  -949   950 u=073  imp:n=1
08475  55  0.7070584E-01  -247   117  -918   867  -949   950 u=073  imp:n=1
08476  56  0.6618348E-01  -247   254  -917   918  -949   950 u=073  imp:n=1
08477  56  0.6618348E-01  -253   117  -917   918  -949   950 u=073  imp:n=1
08478   0                 -254   253  -917   918  -949   950 u=073 imp:n=1
08479  53  0.8228339E-01  -117   263  -893   867  -948   949 u=073  imp:n=1
08480  54  0.2192774E-01  -117   263  -893   867  -950   951 u=073  imp:n=1
08481  55  0.7070584E-01  -117   263  -893   917  -949   950 u=073  imp:n=1
08482  55  0.7070584E-01  -117   263  -918   867  -949   950 u=073  imp:n=1
08483  56  0.6618348E-01  -117   269  -917   918  -949   950 u=073  imp:n=1
08484  56  0.6618348E-01  -268   263  -917   918  -949   950 u=073  imp:n=1
08485   0                 -269   268  -917   918  -949   950 u=073 imp:n=1
08486  53  0.8228339E-01  -263   202  -893   867  -948   949 u=073  imp:n=1
08487  54  0.2192774E-01  -263   202  -893   867  -950   951 u=073  imp:n=1
08488  55  0.7070584E-01  -263   202  -893   917  -949   950 u=073  imp:n=1
08489  55  0.7070584E-01  -263   202  -918   867  -949   950 u=073  imp:n=1
08490  56  0.6618348E-01  -263   267  -917   918  -949   950 u=073  imp:n=1
08491  56  0.6618348E-01  -266   202  -917   918  -949   950 u=073  imp:n=1
08492   0                 -267   266  -917   918  -949   950 u=073 imp:n=1
08493  53  0.8228339E-01  -201   247  -893   867  -951   952 u=073  imp:n=1
08494  54  0.2192774E-01  -201   247  -893   867  -953   954 u=073  imp:n=1
```

```
08495  55  0.7070584E-01  -201   247  -893   917  -952   953 u=073  imp:n=1
08496  55  0.7070584E-01  -201   247  -918   867  -952   953 u=073  imp:n=1
08497  56  0.6618348E-01  -201   256  -917   918  -952   953 u=073  imp:n=1
08498  56  0.6618348E-01  -255   247  -917   918  -952   953 u=073  imp:n=1
08499   0                 -256   255  -917   918  -952   953 u=073 imp:n=1
08500  53  0.8228339E-01  -247   117  -893   867  -951   952 u=073  imp:n=1
08501  54  0.2192774E-01  -247   117  -893   867  -953   954 u=073  imp:n=1
08502  55  0.7070584E-01  -247   117  -893   917  -952   953 u=073  imp:n=1
08503  55  0.7070584E-01  -247   117  -918   867  -952   953 u=073  imp:n=1
08504  56  0.6618348E-01  -247   254  -917   918  -952   953 u=073  imp:n=1
08505  56  0.6618348E-01  -253   117  -917   918  -952   953 u=073  imp:n=1
08506   0                 -254   253  -917   918  -952   953 u=073 imp:n=1
08507  53  0.8228339E-01  -117   263  -893   867  -951   952 u=073  imp:n=1
08508  54  0.2192774E-01  -117   263  -893   867  -953   954 u=073  imp:n=1
08509  55  0.7070584E-01  -117   263  -893   917  -952   953 u=073  imp:n=1
08510  55  0.7070584E-01  -117   263  -918   867  -952   953 u=073  imp:n=1
08511  56  0.6618348E-01  -117   269  -917   918  -952   953 u=073  imp:n=1
08512  56  0.6618348E-01  -268   263  -917   918  -952   953 u=073  imp:n=1
08513   0                 -269   268  -917   918  -952   953 u=073 imp:n=1
08514  53  0.8228339E-01  -263   202  -893   867  -951   952 u=073  imp:n=1
08515  54  0.2192774E-01  -263   202  -893   867  -953   954 u=073  imp:n=1
08516  55  0.7070584E-01  -263   202  -893   917  -952   953 u=073  imp:n=1
08517  55  0.7070584E-01  -263   202  -918   867  -952   953 u=073  imp:n=1
08518  56  0.6618348E-01  -263   267  -917   918  -952   953 u=073  imp:n=1
08519  56  0.6618348E-01  -266   202  -917   918  -952   953 u=073  imp:n=1
08520   0                 -267   266  -917   918  -952   953 u=073 imp:n=1
08521  34  0.1035093E+00  -201   202  -893   867  -954   955 u=073  imp:n=1
08522  26  0.7164290E-01  -933   911  -893   867  -938   956 u=073  imp:n=1
08523  29  0.1183522E+00  -911   957  -893   867  -941   946 u=073  imp:n=1
08524  28  0.1187656E+00  -907   904  -893   867  -938   944 u=073  imp:n=1
08525  27  0.1212447E+00  -957   958  -893   867  -941   946 u=073  imp:n=1
08526  30  0.5464445E-01  -903   900  -893   867  -938   944 u=073  imp:n=1
08527  26  0.7164290E-01  -942   959  -893   867  -938   956 u=073  imp:n=1
08528  26  0.7164290E-01  -959   888  -893   867  -938   956 u=073  imp:n=1
08529  27  0.1212447E+00  -888   960  -893   867  -941   946 u=073  imp:n=1
08530  30  0.5464445E-01  -884   881  -893   867  -938   944 u=073  imp:n=1
08531  28  0.1187656E+00  -880   877  -893   867  -938   944 u=073  imp:n=1
08532  29  0.1183522E+00  -960   961  -893   867  -941   946 u=073  imp:n=1
08533  26  0.7164290E-01  -868   926  -893   867  -938   956 u=073  imp:n=1
08534   0                 -863     9  -865     4  -563   937 u=073 imp:n=1
08535   0                  -10   864  -865     4  -563   937 u=073 imp:n=1
08536   0                  -10     9    -7   865   -81   937 u=073 imp:n=1
08537   0                 -868   202  -865   893  -563   941 u=073 imp:n=1
08538   0                 -880   877  -873   867  -944   940 u=073 imp:n=1
08539   0                 -884   881  -873   867  -944   940 u=073 imp:n=1
08540   0                 -896   888  -865   893  -563   941 u=073 imp:n=1
08541   0                 -926   202  -893   874  -939   940 u=073 imp:n=1
08542   0                 -907   904  -865   893  -938   939 u=073 imp:n=1
08543   0                 -903   900  -865   893  -938   939 u=073 imp:n=1
08544   0                 -896   943  -893   874  -939   940 u=073 imp:n=1
08545   0                 -896   943  -893   867  -938   939 u=073 imp:n=1
08546   0                 -880   877  -873   893  -939   944 u=073 imp:n=1
08547   0                 -884   881  -873   893  -939   944 u=073 imp:n=1
08548   0                 -926   202  -893   867  -938   939 u=073 imp:n=1
08549   0                 -884   881  -865   893  -938   939 u=073 imp:n=1
08550   0                 -880   877  -865   893  -938   939 u=073 imp:n=1
08551   0                 -903   900  -873   867  -944   940 u=073 imp:n=1
08552   0                 -903   900  -873   893  -939   944 u=073 imp:n=1
08553   0                 -907   904  -873   867  -944   940 u=073 imp:n=1
08554   0                 -907   904  -873   893  -939   944 u=073 imp:n=1
08555   0                 -201   911  -865   893  -563   941 u=073 imp:n=1
08556   0                 -201   933  -893   867  -563   956 u=073 imp:n=1
08557   0                 -926   202  -874   867  -939   940 u=073 imp:n=1
08558   0                 -201   933  -893   867  -938   563 u=073 imp:n=1
08559   0                 -201   911  -865   893  -938   563 u=073 imp:n=1
08560   0                 -896   943  -874   867  -939   940 u=073 imp:n=1
08561   0                 -896   888  -865   893  -938   563 u=073 imp:n=1
08562   0                 -868   202  -865   893  -938   563 u=073 imp:n=1
08563   0                  -10   864  -865     4   -81   563 u=073 imp:n=1
08564   0                 -863     9  -865     4   -81   563 u=073 imp:n=1
08565   0                 -907   904  -865   867  -940   941 u=073 imp:n=1
08566   0                 -903   900  -865   867  -940   941 u=073 imp:n=1
08567   0                 -880   877  -865   873  -939   940 u=073 imp:n=1
08568   0                 -884   881  -865   873  -939   940 u=073 imp:n=1
08569   0                 -896   943  -893   867  -940   941 u=073 imp:n=1
08570   0                 -903   900  -865   873  -939   940 u=073 imp:n=1
```

```
08571   0                -907   904  -865   873  -939   940 u=073 imp:n=1
08572   0                -884   881  -865   867  -940   941 u=073 imp:n=1
08573   0                -201   202  -865   893  -941   955 u=073 imp:n=1
08574   0                -961   202  -893   867  -956   946 u=073 imp:n=1
08575   0                -958   888  -893   867  -945   946 u=073 imp:n=1
08576   0                -201   911  -893   867  -956   946 u=073 imp:n=1
08577   0                -880   877  -865   867  -940   941 u=073 imp:n=1
08578   0                -958   943  -893   867  -941   945 u=073 imp:n=1
08579   0                -961   868  -893   867  -941   956 u=073 imp:n=1
08580   0                -201   202  -865   867  -955   937 u=073 imp:n=1
08581   0                -926   202  -893   867  -940   956 u=073 imp:n=1
08582   0                -942   888  -893   867  -956   945 u=073 imp:n=1
08583   3  0.8540120E-01    -2     1    -4     3  -937     5 u=073  imp:n=1
08584   3  0.8540120E-01    -2     1    -8     7  -937     5 u=073  imp:n=1
08585   3  0.8540120E-01    -9     1    -7     4  -937     5 u=073  imp:n=1
08586   3  0.8540120E-01    -2    10    -7     4  -937     5 u=073  imp:n=1
08587  96  0.8381299E-01  -963   962   -83     4  -937   964 u=073  imp:n=1
08588   0                 -10     9    -7     4  -964     5 u=073 imp:n=1
08589   0                 -10     9    -7    83  -937   964 u=073 imp:n=1
08590   0                -962     9   -83     4  -937   964 u=073 imp:n=1
08591   0                 -10   963   -83     4  -937   964 u=073 imp:n=1
08592   1  0.3030146E-01    -2     1    -4     3    -6     5 u=074  imp:n=1
08593   1  0.3030146E-01    -2     1    -8     7    -6     5 u=074  imp:n=1
08594   2  0.7570860E-01    -9     1    -7     4    -6     5 u=074  imp:n=1
08595   2  0.7570860E-01    -2    10    -7     4    -6     5 u=074  imp:n=1
08596   3  0.8540120E-01    -2     1    -4     3   -11     6 u=074  imp:n=1
08597   3  0.8540120E-01    -2     1    -8     7   -11     6 u=074  imp:n=1
08598   3  0.8540120E-01    -9     1    -7     4   -11     6 u=074  imp:n=1
08599   3  0.8540120E-01    -2    10    -7     4   -11     6 u=074  imp:n=1
08600  97  0.1196442E+00   -82     9   -83     4  -965     5 u=074  imp:n=1
08601   0                 -10     9    -7     4   -11   965 u=074 imp:n=1
08602   0                 -10     9    -7    83  -965     5 u=074 imp:n=1
08603   0                 -10    82   -83     4  -965     5 u=074 imp:n=1
08604   3  0.8540120E-01    -2     1    -4     3   -81    11 u=074  imp:n=1
08605   3  0.8540120E-01    -2     1    -8     7   -81    11 u=074  imp:n=1
08606   3  0.8540120E-01    -9     1    -7     4   -81    11 u=074  imp:n=1
08607   3  0.8540120E-01    -2    10    -7     4   -81    11 u=074  imp:n=1
08608  34  0.1035093E+00   -82     9   -83     4   -85    84 u=074  imp:n=1
08609   0                 -10     9    -7     4   -84    11 u=074 imp:n=1
08610   0                 -10     9    -7     4   -81    85 u=074 imp:n=1
08611   0                 -10     9    -7    83   -85    84 u=074 imp:n=1
08612   0                 -10    82   -83     4   -85    84 u=074 imp:n=1
08613   1  0.3030146E-01    -2     1    -4     3   -81   563 u=075  imp:n=1
08614   1  0.3030146E-01    -2     1    -8     7   -81   563 u=075  imp:n=1
08615   2  0.7570860E-01    -9     1    -7     4   -81   563 u=075  imp:n=1
08616   2  0.7570860E-01    -2    10    -7     4   -81   563 u=075  imp:n=1
08617   3  0.8540120E-01    -2     1    -4     3  -563   564 u=075  imp:n=1
08618   3  0.8540120E-01    -2     1    -8     7  -563   564 u=075  imp:n=1
08619   3  0.8540120E-01    -9     1    -7     4  -563   564 u=075  imp:n=1
08620   3  0.8540120E-01    -2    10    -7     4  -563   564 u=075  imp:n=1
08621  97  0.1196442E+00   -10   608   -83     4   -81   966 u=075  imp:n=1
08622   0                 -10     9    -7     4  -966   564 u=075 imp:n=1
08623   0                 -10     9    -7    83   -81   966 u=075 imp:n=1
08624   0                -608     9   -83     4   -81   966 u=075 imp:n=1
08625   3  0.8540120E-01    -2     1    -4     3  -564     5 u=075  imp:n=1
08626   3  0.8540120E-01    -2     1    -8     7  -564     5 u=075  imp:n=1
08627   3  0.8540120E-01    -9     1    -7     4  -564     5 u=075  imp:n=1
08628   3  0.8540120E-01    -2    10    -7     4  -564     5 u=075  imp:n=1
08629  34  0.1035093E+00   -10   608   -83     4  -609   610 u=075  imp:n=1
08630   0                 -10     9    -7     4  -564   609 u=075 imp:n=1
08631   0                 -10     9    -7     4  -610     5 u=075 imp:n=1
08632   0                 -10     9    -7    83  -609   610 u=075 imp:n=1
08633   0                -608     9   -83     4  -609   610 u=075 imp:n=1
08634   1  0.3030146E-01    -2     1    -4     3    -6     5 u=076  imp:n=1
08635   1  0.3030146E-01    -2     1    -8     7    -6     5 u=076  imp:n=1
08636   2  0.7570860E-01    -9     1    -7     4    -6     5 u=076  imp:n=1
08637   2  0.7570860E-01    -2    10    -7     4    -6     5 u=076  imp:n=1
08638   3  0.8540120E-01    -2     1    -4     3   -81     6 u=076  imp:n=1
08639   3  0.8540120E-01    -2     1    -8     7   -81     6 u=076  imp:n=1
08640   3  0.8540120E-01    -9     1    -7     4   -81     6 u=076  imp:n=1
08641   3  0.8540120E-01    -2    10    -7     4   -81     6 u=076  imp:n=1
08642  34  0.1035093E+00   -82     9   -83     4   -85    84 u=076  imp:n=1
08643   0                 -10     9    -7     4   -84     5 u=076 imp:n=1
08644   0                 -10     9    -7     4   -81    85 u=076 imp:n=1
08645   0                 -10     9    -7    83   -85    84 u=076 imp:n=1
08646   0                 -10    82   -83     4   -85    84 u=076 imp:n=1
```

```
08647   1  0.3030146E-01    -2     1    -4     3    -6     5 u=077  imp:n=1
08648   1  0.3030146E-01    -2     1    -8     7    -6     5 u=077  imp:n=1
08649   2  0.7570860E-01    -9     1    -7     4    -6     5 u=077  imp:n=1
08650   2  0.7570860E-01    -2    10    -7     4    -6     5 u=077  imp:n=1
08651   3  0.8540120E-01    -2     1    -4     3   -81     6 u=077  imp:n=1
08652   3  0.8540120E-01    -2     1    -8     7   -81     6 u=077  imp:n=1
08653   3  0.8540120E-01    -9     1    -7     4   -81     6 u=077  imp:n=1
08654   3  0.8540120E-01    -2    10    -7     4   -81     6 u=077  imp:n=1
08655  98  0.7781282E-01   -82     9   -83     4  -967     5 u=077  imp:n=1
08656  99  0.4515873E-01   -82     9   -83     4  -969   968 u=077  imp:n=1
08657  98  0.7781282E-01   -82     9   -83   970  -968   967 u=077  imp:n=1
08658  98  0.7781282E-01   -82     9  -971     4  -968   967 u=077  imp:n=1
08659  98  0.7781282E-01  -972     9  -970   971  -968   967 u=077  imp:n=1
08660  98  0.7781282E-01   -82   973  -970   971  -968   967 u=077  imp:n=1
08661 100  0.7016288E-01  -973   972  -970   971  -968   967 u=077  imp:n=1
08662 101  0.1077464E+00   -82     9   -83   974  -966   969 u=077  imp:n=1
08663 101  0.1077464E+00   -82     9  -974     4  -966   969 u=077  imp:n=1
08664   0                  -10    82   -83     4  -969     6 u=077 imp:n=1
08665   0                  -10     9    -7    83  -966     5 u=077 imp:n=1
08666   0                  -10    82   -83     4    -6     5 u=077 imp:n=1
08667   0                  -10     9    -7     4   -81   966 u=077 imp:n=1
08668   0                  -10    82   -83     4  -966   969 u=077 imp:n=1
08669   1  0.3030146E-01    -2     1    -4     3   -81   563 u=078  imp:n=1
08670   1  0.3030146E-01    -2     1    -8     7   -81   563 u=078  imp:n=1
08671   2  0.7570860E-01    -9     1    -7     4   -81   563 u=078  imp:n=1
08672   2  0.7570860E-01    -2    10    -7     4   -81   563 u=078  imp:n=1
08673   3  0.8540120E-01    -2     1    -4     3  -563     5 u=078  imp:n=1
08674   3  0.8540120E-01    -2     1    -8     7  -563     5 u=078  imp:n=1
08675   3  0.8540120E-01    -9     1    -7     4  -563     5 u=078  imp:n=1
08676   3  0.8540120E-01    -2    10    -7     4  -563     5 u=078  imp:n=1
08677  34  0.1035093E+00   -10   608   -83     4  -609   610 u=078  imp:n=1
08678   0                  -10     9    -7     4   -81   609 u=078 imp:n=1
08679   0                  -10     9    -7     4  -610     5 u=078 imp:n=1
08680   0                  -10     9    -7    83  -609   610 u=078 imp:n=1
08681   0                 -608     9   -83     4  -609   610 u=078 imp:n=1
08682   1  0.3030146E-01    -2     1    -4     3   -81   563 u=079  imp:n=1
08683   1  0.3030146E-01    -2     1    -8     7   -81   563 u=079  imp:n=1
08684   2  0.7570860E-01    -9     1    -7     4   -81   563 u=079  imp:n=1
08685   2  0.7570860E-01    -2    10    -7     4   -81   563 u=079  imp:n=1
08686   3  0.8540120E-01    -2     1    -4     3  -563     5 u=079  imp:n=1
08687   3  0.8540120E-01    -2     1    -8     7  -563     5 u=079  imp:n=1
08688   3  0.8540120E-01    -9     1    -7     4  -563     5 u=079  imp:n=1
08689   3  0.8540120E-01    -2    10    -7     4  -563     5 u=079  imp:n=1
08690  98  0.7781282E-01   -10   608   -83     4   -81   975 u=079  imp:n=1
08691  99  0.4515873E-01   -10   608   -83     4  -976   969 u=079  imp:n=1
08692  98  0.7781282E-01   -10   608   -83   970  -975   976 u=079  imp:n=1
08693  98  0.7781282E-01   -10   608  -971     4  -975   976 u=079  imp:n=1
08694  98  0.7781282E-01   -10   977  -970   971  -975   976 u=079  imp:n=1
08695  98  0.7781282E-01  -978   608  -970   971  -975   976 u=079  imp:n=1
08696 100  0.7016288E-01  -977   978  -970   971  -975   976 u=079  imp:n=1
08697 101  0.1077464E+00   -10   608   -83   974  -969   965 u=079  imp:n=1
08698 101  0.1077464E+00   -10   608  -974     4  -969   965 u=079  imp:n=1
08699 101  0.1077464E+00   -10   608   -83   974  -965     5 u=079  imp:n=1
08700 101  0.1077464E+00   -10   608  -974     4  -965     5 u=079  imp:n=1
08701   0                 -608     9   -83     4  -563   969 u=079 imp:n=1
08702   0                  -10     9    -7    83   -81     5 u=079 imp:n=1
08703   0                 -608     9   -83     4   -81   563 u=079 imp:n=1
08704   0                 -608     9   -83     4  -965     5 u=079 imp:n=1
08705   0                 -608     9   -83     4  -969   965 u=079 imp:n=1
08706   1  0.3030146E-01    -2     1    -4     3    -6     5 u=080  imp:n=1
08707   1  0.3030146E-01    -2     1    -8     7    -6     5 u=080  imp:n=1
08708   2  0.7570860E-01    -9     1    -7     4    -6     5 u=080  imp:n=1
08709   2  0.7570860E-01    -2    10    -7     4    -6     5 u=080  imp:n=1
08710   3  0.8540120E-01    -2     1    -4     3   -81     6 u=080  imp:n=1
08711   3  0.8540120E-01    -2     1    -8     7   -81     6 u=080  imp:n=1
08712   3  0.8540120E-01    -9     1    -7     4   -81     6 u=080  imp:n=1
08713   3  0.8540120E-01    -2    10    -7     4   -81     6 u=080  imp:n=1
08714 102  0.8437184E-01   -82     9   -83     4  -979     5 u=080  imp:n=1
08715 103  0.8417856E-01   -82     9   -83     4   -81   979 u=080  imp:n=1
08716   0                  -10     9    -7    83   -81     5 u=080 imp:n=1
08717   0                  -10    82   -83     4   -81     5 u=080 imp:n=1
08718   1  0.3030146E-01    -2     1    -4     3    -6     5 u=081  imp:n=1
08719   1  0.3030146E-01    -2     1    -8     7    -6     5 u=081  imp:n=1
08720   2  0.7570860E-01    -9     1    -7     4    -6     5 u=081  imp:n=1
08721   2  0.7570860E-01    -2    10    -7     4    -6     5 u=081  imp:n=1
08722   3  0.8540120E-01    -2     1    -4     3   -81     6 u=081  imp:n=1
```

```
08723   3  0.8540120E-01    -2     1    -8     7   -81     6 u=081  imp:n=1
08724   3  0.8540120E-01    -9     1    -7     4   -81     6 u=081  imp:n=1
08725   3  0.8540120E-01    -2    10    -7     4   -81     6 u=081  imp:n=1
08726   0                  -10     9    -7     4   -81     5 u=081 imp:n=1
08727   1  0.3030146E-01    -2     1    -4     3   -81   563 u=082  imp:n=1
08728   1  0.3030146E-01    -2     1    -8     7   -81   563 u=082  imp:n=1
08729   2  0.7570860E-01    -9     1    -7     4   -81   563 u=082  imp:n=1
08730   2  0.7570860E-01    -2    10    -7     4   -81   563 u=082  imp:n=1
08731   3  0.8540120E-01    -2     1    -4     3  -563     5 u=082  imp:n=1
08732   3  0.8540120E-01    -2     1    -8     7  -563     5 u=082  imp:n=1
08733   3  0.8540120E-01    -9     1    -7     4  -563     5 u=082  imp:n=1
08734   3  0.8540120E-01    -2    10    -7     4  -563     5 u=082  imp:n=1
08735 102  0.8437184E-01   -10   608   -83     4   -81   980 u=082  imp:n=1
08736 103  0.8417856E-01   -10   608   -83     4  -980     5 u=082  imp:n=1
08737   0                  -10     9    -7    83   -81     5 u=082 imp:n=1
08738   0                 -608     9   -83     4   -81     5 u=082 imp:n=1
08739   1  0.3030146E-01    -2     1    -4     3   -81   563 u=083  imp:n=1
08740   1  0.3030146E-01    -2     1    -8     7   -81   563 u=083  imp:n=1
08741   2  0.7570860E-01    -9     1    -7     4   -81   563 u=083  imp:n=1
08742   2  0.7570860E-01    -2    10    -7     4   -81   563 u=083  imp:n=1
08743   3  0.8540120E-01    -2     1    -4     3  -563     5 u=083  imp:n=1
08744   3  0.8540120E-01    -2     1    -8     7  -563     5 u=083  imp:n=1
08745   3  0.8540120E-01    -9     1    -7     4  -563     5 u=083  imp:n=1
08746   3  0.8540120E-01    -2    10    -7     4  -563     5 u=083  imp:n=1
08747   0                  -10     9    -7     4   -81     5 u=083 imp:n=1
08748   0   -982   981  -984   983  -985   987 lat=1 u=084 fill=0:078 0:078 -1:0
            82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
            82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
            82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
            82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
            82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
            82  82  82  82  82  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  82  82  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  82  82  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            82  82  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  82  82  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  82  82  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  82  82  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  82  82  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
            83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
```

HEU-MET-MIXED-012

```
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 82 82 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 82 82
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 82 82 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 82 82 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 82 82 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 82
82 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 82 82 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 82 82 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 82 82 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
82 82 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 82 82 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 82 82 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 82 82
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 82 82 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
```

HEU-MET-MIXED-012

```
83  83  83  83  83  82  82  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  82  82  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  82  82
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  82  82  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  79  79  79  79  79  79
79  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  82  82  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  79  79  79  79  78
78  78  78  78  79  79  79  79  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  82  82  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  79  79  79
78  78  78  78  78  75  78  78  78  78  78  79  79  79  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  82
82  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  79  78  78  78  78  78  75  75  75  75  75  78  78  78
78  78  79  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  82  82  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  79  79  78  78  78  75  75  75  75  75  75
75  75  75  78  78  78  79  79  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  82  82  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  79  78  78  78  75  75  75
75  57  61  57  75  75  75  75  78  78  78  79  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  82  82  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  79  78  78
75  75  75  57  49  49  49  49  49  57  75  75  75  78  78
79  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
82  82  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
79  79  78  78  75  75  54  49  53  42  69  42  53  49  55
75  75  78  78  79  79  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  82  82  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  79  78  78  75  75  75  49  62  63  37  46
37  73  51  49  75  75  75  78  78  79  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  82  82  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  79  78  78  75  75  54  49
64  44  36  37  36  47  65  49  55  75  75  78  78  79  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  82  82  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  79  78  75
75  75  58  49  39  71  48  45  70  38  40  49  59  75  75
75  78  79  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  82  82  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
```

HEU-MET-MIXED-012

```
83  79  78  78  75  75  54  49  66  44  63  37  36  43  67
49  55  75  75  78  78  79  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  82  82  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  79  78  78  75  75  75  49  50  73  37
46  37  63  51  49  75  75  75  78  78  79  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  82  82  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  79  79  78  78  75  75
54  49  52  41  68  41  52  49  55  75  75  78  78  79  79
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  82  82
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  79
78  78  75  75  75  56  49  49  49  49  49  56  75  75  75
78  78  79  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  82  82  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  79  78  78  78  75  75  75  75  56  60  56  75
75  75  75  78  78  78  79  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  82  82  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  79  79  78  78  78  75  75  75
75  75  75  75  75  75  78  78  78  79  79  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  82  82  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  79  78  78
78  78  78  75  75  75  75  75  78  78  78  78  78  79  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  82
82  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  79  79  79  78  78  78  78  78  75  78  78  78  78  78
79  79  79  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  82  82  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  79  79  79  79  78  78  78  78
78  79  79  79  79  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  82  82  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  79
79  79  79  79  79  79  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  82  82  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
82  82  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  82  82  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  82  82  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  82  82  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
```

HEU-MET-MIXED-012

```
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 82 82 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 82 82 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 82 82 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 82 82
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 82 82 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 82 82 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 82 82 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
82 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 82 82 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 82 82 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
82 82 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 82 82 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 82 82 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 83 83 83 83 83 83 83 83 83 82 82 83
83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
```

```
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  82  82  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  82  82  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  82  82  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  82  82
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  82  82  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  82  82  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  82  82  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  82
82  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  82  82  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  82  82  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  83  83  83  83
83  83  83  83  83  83  83  83  83  83  83  82  82  82  82
82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
82  82  82  82  82  82  82  82  82  82  82  82  82  82  82
82  80  80  80  80  80  80  80  80  80  80  80  80  80  80
80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
80  80  80  80  80  80  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  80  80  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
```

81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	80	80	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	80	80	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	80	80	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	80	80	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	80	80
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	80	80	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	80	80	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	80	80	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	80
80	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	80	80	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	80	80	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	80	80	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
80	80	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	80	80	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
81	81	81	81	81	81	81	81	80	80	81	81	81	81	81

HEU-MET-MIXED-012

```
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  80  80  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  80  80  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  80  80  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  80  80  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  80  80
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  80  80  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  80  80  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  80  80  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  80
80  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  80  80  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  77  77  77  77  77
77  77  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  80  80  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  77  77  77  77  77
76  76  76  76  76  77  77  77  77  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  80  80  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  77  77
77  76  76  76  76  76  74  76  76  76  76  76  77  77  77
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
80  80  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  77  76  76  76  76  76  74  74  74  74  74  76  76
76  76  76  77  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  80  80  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  77  77  76  76  76  74  74  74  74  74
```

```
74  74  74  74  76  76  76  77  77  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  80  80  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  77  76  76  76  74  74
74  74  21  25  21  74  74  74  74  76  76  76  77  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  80  80  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  77  76
76  74  74  74  21  13  13  13  13  13  21  74  74  74  76
76  77  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  80  80  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  77  77  76  76  74  74  19  13  17   7  33   7  17  13
18  74  74  76  76  77  77  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  80  80  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  77  76  76  74  74  74  13  26  27   2
11   2  72  14  13  74  74  74  76  76  77  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  80  80  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  77  76  76  74  74  19
13  31   9   1   2   1  12  30  13  18  74  74  76  76  77
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  80  80
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  77  76
74  74  74  23  13   5  34   2  10  35   3   4  13  22  74
74  74  76  77  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  80  80  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  77  76  76  74  74  19  13  29   9  27   2   1   8
28  13  18  74  74  76  76  77  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  80  80  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  77  76  76  74  74  74  13  15  72
 2  11   2  27  14  13  74  74  74  76  76  77  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  80  80  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  77  77  76  76  74
74  19  13  16   6  32   6  16  13  18  74  74  76  76  77
77  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  80
80  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
77  76  76  74  74  74  20  13  13  13  13  13  20  74  74
74  76  76  77  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  80  80  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  77  76  76  76  74  74  74  74  20  24  20
74  74  74  74  76  76  76  77  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  80  80  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  77  77  76  76  76  74  74
74  74  74  74  74  74  74  76  76  76  77  77  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  80  80  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  77  76
76  76  76  76  74  74  74  74  74  76  76  76  76  76  77
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
80  80  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  77  77  77  76  76  76  76  76  74  76  76  76  76
76  77  77  77  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
```

```
81  81  81  81  80  80  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  77  77  77  77  76  76  76
76  76  77  77  77  77  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  80  80  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
77  77  77  77  77  77  77  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  80  80  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  80  80  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  80  80  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  80  80  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  80  80  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  80  80  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  80  80  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  80
80  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  80  80  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  80  80  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
80  80  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
```

HEU-MET-MIXED-012

```
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  80  80  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  80  80  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  80  80  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  80  80  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  80  80  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  80  80  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  80  80
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  80  80  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  80  80  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  80  80  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  80
80  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  80  80  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  80  80  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  80  80  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
```

```
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            80  80  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  80  80  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  80  80  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            81  81  81  81  81  81  81  81  81  81  81  81  81  81  81
            80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
            80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
            80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
            80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
            80  80  80  80  80  80  80  80  80  80  80  80  80  80  80
            80  80
                                                              imp:n=1
08749   0    -988   981  -989   983  -985   986  fill=084   imp:n=1
08750   0   -981:   988:  -983:   989:  -986:   985  imp:n=0

C   SURFACE CARDS
0001 px     -0.100000
0002 px      5.624500
0003 py     -0.100000
0004 py      0.101600
0005 pz     -0.100000
0006 pz      2.540000
0007 py      5.422900
0008 py      5.624500
0009 px      0.101600
0010 px      5.422900
0011 pz     59.060080
0012 px      0.130810
0013 px      5.393690
0014 py      5.347970
0015 pz      0.091440
0016 pz     58.877200
0017 px      0.209550
0018 py      0.180340
0019 px      5.314950
0020 px      0.397510
0021 py      5.285740
0022 pz      0.231140
0023 pz     20.551140
0024 pz     20.690840
0025 py      5.273040
0026 py      0.193040
0027 px      0.224150
0028 px      0.382900
0029 px      0.476250
0030 px      0.664210
0031 pz     10.391140
0032 pz     10.530840
0033 px      0.490860
0034 px      0.649600
0035 pz     10.670540
0036 pz     20.830540
0037 pz     20.970240
0038 px      1.140460
0039 px      1.487170
0040 px      1.155070
0041 px      1.472560
0042 px      1.804670
0043 px      2.151380
0044 px      1.819280
0045 px      2.136780
0046 px      2.444750
0047 px      3.079750
0048 py      5.260340
```

```
0049 pz     20.411440
0050 pz     35.651440
0051 px      3.158490
0052 px      3.505200
0053 px      3.173090
0054 px      3.490590
0055 px      3.822700
0056 px      4.169410
0057 px      3.837310
0058 px      4.154810
0059 px      4.645660
0060 px      4.833620
0061 px      4.660270
0062 px      4.819020
0063 px      5.126990
0064 px      5.141590
0065 px      5.300350
0066 px      0.368300
0067 pz     35.930840
0068 pz     30.571440
0069 px      1.492760
0070 pz     36.210240
0071 px      2.366010
0072 px      4.031740
0073 px      5.048250
0074 px      5.285740
0075 px      5.289550
0076 pz     36.368990
0077 pz     36.450270
0078 px      0.290830
0079 pz     43.054270
0080 px      5.208270
0081 pz    122.020000
0082 px      5.181600
0083 py      5.181600
0084 pz     86.436200
0085 pz     91.516200
0086 px      0.223270
0087 px      0.411230
0088 px      0.237870
0089 px      0.396620
0090 px      0.728730
0091 px      1.075440
0092 px      0.743330
0093 px      1.060830
0094 px      1.889000
0095 px      2.235710
0096 px      1.903600
0097 px      2.221100
0098 px      2.553210
0099 px      2.899920
0100 px      2.567810
0101 px      2.885310
0102 px      3.217420
0103 px      3.564130
0104 px      3.232020
0105 px      3.549520
0106 px      4.427980
0107 px      4.774690
0108 px      4.442590
0109 px      4.760090
0110 px      5.092190
0111 px      5.280150
0112 px      5.106800
0113 px      5.265550
0114 px      1.096520
0115 px      1.175260
0116 px      1.810260
0117 px      2.762250
0118 px      3.635500
0119 px      3.714240
0120 px      4.349240
0121 px      5.301230
0122 px      1.833880
0123 px      1.501780
0124 px      2.180590
```

```
0125 px      1.848490
0126 px      2.165990
0127 px      3.693160
0128 px      3.519810
0129 px      3.678560
0130 px      3.851910
0131 px      4.198620
0132 px      3.866520
0133 px      4.184020
0134 px      4.674870
0135 px      4.862830
0136 px      4.689470
0137 px      4.848230
0138 px      0.222760
0139 px      0.410720
0140 px      0.237360
0141 px      0.396110
0142 px      0.728220
0143 px      1.074930
0144 px      0.742820
0145 px      1.060320
0146 px      1.174750
0147 px      1.809750
0148 px      1.888490
0149 px      2.235200
0150 px      1.903090
0151 px      2.220590
0152 px      2.552700
0153 px      2.740660
0154 px      2.567310
0155 px      2.726060
0156 px      2.761490
0157 px      2.920240
0158 pz     15.331440
0159 px      2.761740
0160 px      2.920490
0161 pz     22.951440
0162 pz     38.191440
0163 px      3.237990
0164 px      4.984240
0165 px      5.301740
0166 pz     33.111440
0167 px      1.096010
0168 px      3.237740
0169 pz     38.350190
0170 pz     38.431470
0171 pz     45.035470
0172 px      0.540260
0173 px      2.286510
0174 px      2.604010
0175 px      2.762760
0176 px      2.950720
0177 px      2.777360
0178 px      2.936110
0179 px      3.268220
0180 px      3.614930
0181 px      3.282820
0182 px      3.600320
0183 px      3.714750
0184 px      4.349750
0185 px      4.428490
0186 px      4.745990
0187 pz      5.171440
0188 px      4.775200
0189 pz      5.311140
0190 px      4.443090
0191 px      4.760600
0192 px      5.092700
0193 px      5.280660
0194 px      5.107300
0195 px      5.266050
0196 px      3.636010
0197 py      3.731260
0198 py      4.048760
0199 py      1.320800
0200 py      1.508760
```

```
0201 px      5.302250
0202 px      0.222250
0203 py      1.335410
0204 py      1.494160
0205 py      1.667510
0206 py      1.450470
0207 py      1.609220
0208 py      5.318760
0209 py      1.985010
0210 py      0.844550
0211 py      0.656590
0212 py      0.671190
0213 py      0.829940
0214 py      0.368300
0215 py      0.447040
0216 py      0.194950
0217 py      0.353700
0218 py      0.339090
0219 py      0.577220
0220 py      1.926720
0221 pz      7.711440
0222 py      1.450340
0223 py      1.767840
0224 py      3.990340
0225 py      4.178300
0226 py      4.004950
0227 py      4.163700
0228 py      3.831590
0229 py      3.514090
0230 py      4.654550
0231 py      4.842510
0232 py      4.669150
0233 py      4.827910
0234 py      5.022220
0235 py      5.100950
0236 py      5.101590
0237 py      5.289550
0238 py      5.116200
0239 py      5.274950
0240 py      4.863590
0241 pz     55.971440
0242 pz     10.251440
0243 pz     12.791440
0244 px      2.950210
0245 px      2.776860
0246 px      2.935610
0247 px      4.032250
0248 pz     36.291520
0249 pz     56.276240
0250 pz     56.530240
0251 py      5.215890
0252 py      0.224790
0253 px      2.810510
0254 px      3.983990
0255 px      4.080510
0256 px      5.253990
0257 px      3.267710
0258 px      3.614420
0259 px      3.282310
0260 px      3.599810
0261 px      0.539750
0262 px      0.857250
0263 px      1.492250
0264 px      2.127250
0265 pz     56.688990
0266 px      0.270510
0267 px      1.443990
0268 px      1.540510
0269 px      2.713990
0270 px      0.410210
0271 px      0.236860
0272 px      0.395600
0273 px      0.727710
0274 px      1.074420
0275 px      0.742320
0276 px      1.059810
```

```
0277 px      1.174240
0278 px      1.809240
0279 px      1.887980
0280 px      2.234690
0281 px      1.902590
0282 px      2.220090
0283 px      2.552190
0284 px      2.740150
0285 px      2.566800
0286 px      2.725550
0287 px      1.095500
0288 px      2.761230
0289 px      3.397250
0290 px      4.667250
0291 px      4.984750
0292 px      0.488950
0293 px      0.676910
0294 px      0.503560
0295 px      0.662300
0296 px      1.153160
0297 px      1.341120
0298 px      1.167760
0299 px      1.326510
0300 px      4.220210
0301 px      4.046850
0302 px      4.205610
0303 px      4.696460
0304 px      4.884420
0305 px      4.711060
0306 px      4.869820
0307 px      5.172200
0308 px      4.998850
0309 px      5.157600
0310 px      0.381000
0311 px      1.362200
0312 px      4.905500
0313 px      5.142990
0314 px      0.287270
0315 px      0.475230
0316 px      0.301880
0317 px      0.460630
0318 px      0.553970
0319 px      0.741930
0320 px      0.568580
0321 px      0.727330
0322 px      1.218180
0323 px      1.406140
0324 px      1.232790
0325 px      1.391540
0326 px      1.557270
0327 px      4.097270
0328 px      4.573520
0329 px      4.761480
0330 px      4.588130
0331 px      4.746880
0332 px      5.049270
0333 px      5.237230
0334 px      5.063870
0335 px      5.222620
0336 px      0.446020
0337 px      1.427230
0338 px      4.970530
0339 px      5.208020
0340 px      2.921000
0341 py      2.720340
0342 py      2.880360
0343 pz     41.290240
0344 py      5.100320
0345 pz     41.130220
0346 pz     36.370260
0347 pz     46.370240
0348 pz     46.210220
0349 pz     41.450260
0350 pz     51.450240
0351 pz     51.290220
0352 pz     46.530260
```

```
0353 pz     56.370220
0354 pz     51.610260
0355 px      4.328160
0356 pz      0.172720
0357 pz     15.077440
0358 px      3.741420
0359 px      4.279900
0360 pz     20.251420
0361 pz     15.491460
0362 px      4.406900
0363 px      4.753610
0364 px      4.421500
0365 px      4.739000
0366 px      5.071110
0367 px      5.259070
0368 px      5.085720
0369 px      5.244460
0370 pz     17.871440
0371 pz     40.731440
0372 pz     50.891440
0373 px      3.556000
0374 px      2.749550
0375 pz     35.810190
0376 pz     35.891470
0377 pz     42.495470
0378 pz     28.031440
0379 px      2.432050
0380 px      0.685800
0381 px      5.130800
0382 px      3.067050
0383 px      4.813300
0384 py      2.402840
0385 py      3.037840
0386 py      4.784090
0387 px      1.479550
0388 px      4.019550
0389 px      4.152900
0390 py      0.182880
0391 pz      1.021080
0392 py      5.341620
0393 px      4.234180
0394 px      5.341620
0395 px      5.186680
0396 py      5.262880
0397 pz     13.817600
0398 pz     14.135100
0399 py      5.064760
0400 py      0.381000
0401 px      4.356100
0402 px      5.064760
0403 px      0.140340
0404 px      4.114160
0405 px      0.219070
0406 px      4.035430
0407 px      3.870320
0408 px      4.029070
0409 px      3.076580
0410 px      3.711570
0411 px      2.759070
0412 pz     59.377580
0413 px      3.911600
0414 px      2.493010
0415 px      3.031490
0416 px      0.215650
0417 px      0.403610
0418 px      0.230250
0419 px      0.389000
0420 px      0.374400
0421 px      0.482350
0422 px      1.498850
0423 px      0.670310
0424 px      0.496950
0425 px      0.655700
0426 px      1.146560
0427 px      1.334520
0428 px      1.161160
```

```
0429 px      1.319910
0430 px      1.485010
0431 px      1.643760
0432 px      1.657600
0433 px      1.975100
0434 px      2.451350
0435 px      3.721350
0436 pz     20.492720
0437 pz     35.397440
0438 px      2.499610
0439 px      3.673090
0440 px      4.038850
0441 px      5.308850
0442 px      1.961260
0443 px      2.596260
0444 px      3.072510
0445 px      3.707510
0446 px      1.485650
0447 px      1.803150
0448 px      3.073150
0449 px      1.851410
0450 px      3.024890
0451 px      3.549400
0452 px      3.866900
0453 px      4.025650
0454 px      4.213610
0455 px      4.040250
0456 px      4.199000
0457 px      5.042150
0458 px      4.689860
0459 px      4.877820
0460 px      4.704460
0461 px      4.863210
0462 px      5.120890
0463 px      5.135500
0464 px      5.294250
0465 px      5.279640
0466 px      2.438150
0467 px      2.914400
0468 px      1.644400
0469 px      3.708150
0470 px      2.486410
0471 px      3.659890
0472 px      2.610100
0473 px      3.086350
0474 px      1.961900
0475 py      2.755270
0476 py      2.914020
0477 py      2.696850
0478 py      2.855600
0479 py      4.977770
0480 py      5.295270
0481 py      3.231520
0482 py      3.707770
0483 px      5.245100
0484 px      0.254000
0485 py      3.756030
0486 py      4.929500
0487 py      2.567310
0488 py      2.581910
0489 py      2.740660
0490 py      1.903090
0491 py      2.249810
0492 py      1.917700
0493 py      2.235200
0494 py      1.189350
0495 py      1.824360
0496 py      0.763910
0497 py      1.110620
0498 py      0.778510
0499 py      1.096010
0500 py      2.061840
0501 py      0.258440
0502 py      0.446400
0503 py      0.273050
0504 py      0.431800
```

```
0505 py      1.053590
0506 py      3.173090
0507 py      2.561590
0508 py      0.497840
0509 py      2.244090
0510 py      0.546100
0511 py      1.719580
0512 py      2.908300
0513 py      2.734950
0514 py      2.893700
0515 py      3.225800
0516 py      3.572510
0517 py      3.240400
0518 py      3.557900
0519 py      3.651250
0520 py      4.286250
0521 py      4.364990
0522 py      4.711700
0523 py      4.379600
0524 py      4.697100
0525 py      3.355340
0526 py      5.029200
0527 py      5.217160
0528 py      5.043800
0529 py      5.202560
0530 py      5.238240
0531 py      1.132840
0532 px      1.645920
0533 px      1.660530
0534 pz      1.996440
0535 pz      2.136140
0536 pz     12.296140
0537 pz     12.435840
0538 pz     12.575540
0539 pz     22.735540
0540 pz     22.875240
0541 pz     22.456140
0542 pz     22.595840
0543 pz     22.316440
0544 px      2.899470
0545 px      2.884870
0546 px      3.216970
0547 px      3.563680
0548 px      3.231580
0549 px      3.549080
0550 px      3.713800
0551 px      4.348800
0552 px      3.762060
0553 px      4.300540
0554 pz     38.115240
0555 pz     32.476440
0556 pz     37.556440
0557 pz     37.835840
0558 px      3.635060
0559 px      4.427540
0560 pz     38.273990
0561 pz     38.355270
0562 pz     44.959270
0563 pz    119.380000
0564 pz     62.859920
0565 pz    121.828560
0566 pz     63.042800
0567 pz    121.688860
0568 pz    101.368860
0569 pz    101.229160
0570 px      4.860290
0571 pz    111.528860
0572 pz    111.389160
0573 px      5.033640
0574 px      4.874890
0575 pz    111.249460
0576 pz    101.089460
0577 pz    100.949760
0578 px      4.037330
0579 px      4.384040
0580 px      4.369440
```

```
0581 px      4.051940
0582 px      3.373120
0583 px      3.719830
0584 px      3.705220
0585 px      3.387730
0586 pz    101.508560
0587 pz     86.268560
0588 px      2.019300
0589 px      2.351400
0590 px      2.033900
0591 px      1.355090
0592 px      1.701800
0593 px      1.687200
0594 px      1.369700
0595 px      0.690880
0596 px      0.878840
0597 px      0.864230
0598 px      0.705490
0599 px      5.156200
0600 pz     85.989160
0601 pz     91.348560
0602 pz     85.709760
0603 px      0.238760
0604 px      0.234950
0605 pz     85.551010
0606 pz     85.469730
0607 pz     78.865730
0608 px      0.342900
0609 pz      9.428480
0610 pz      4.348480
0611 px      5.113270
0612 px      5.286630
0613 px      5.127880
0614 px      4.449060
0615 px      4.795770
0616 px      4.781170
0617 px      4.463670
0618 px      3.288790
0619 px      3.620900
0620 px      3.303400
0621 px      2.624580
0622 px      2.971290
0623 px      2.956690
0624 px      2.639190
0625 px      1.960370
0626 px      2.307080
0627 px      2.292480
0628 px      1.974980
0629 px      0.749810
0630 px      1.081910
0631 px      0.764410
0632 px      0.244350
0633 px      0.432310
0634 px      0.417700
0635 px      0.258950
0636 px      3.878580
0637 px      3.690620
0638 px      3.863970
0639 px      3.343910
0640 px      3.676020
0641 px      3.358510
0642 px      1.672590
0643 px      2.004690
0644 px      1.325880
0645 px      1.657990
0646 px      1.340490
0647 px      0.661670
0648 px      0.849630
0649 px      0.835030
0650 px      0.676270
0651 px      5.113780
0652 px      5.287140
0653 px      5.128390
0654 px      4.449570
0655 px      4.796280
0656 px      4.781680
```

```
0657 px      4.464180
0658 px      3.289300
0659 px      3.621410
0660 px      3.303910
0661 px      2.783840
0662 px      2.971800
0663 px      2.957200
0664 px      2.798450
0665 px      2.604260
0666 px      2.763010
0667 pz    106.588560
0668 pz     98.968560
0669 pz     83.728560
0670 pz     88.808560
0671 px      2.286760
0672 pz     83.569810
0673 pz     83.488530
0674 pz     76.884530
0675 px      2.573780
0676 px      2.747140
0677 px      2.588390
0678 px      1.909570
0679 px      2.256280
0680 px      2.241680
0681 px      1.924180
0682 px      0.778510
0683 pz    116.748560
0684 px      0.749300
0685 pz    116.608860
0686 px      1.081400
0687 px      0.763910
0688 px      0.243840
0689 px      0.431800
0690 px      0.417200
0691 px      0.258440
0692 pz    114.208560
0693 px      5.114290
0694 px      5.287650
0695 px      5.128890
0696 px      4.450080
0697 px      4.796790
0698 px      4.782190
0699 px      4.464690
0700 px      3.715260
0701 px      4.350260
0702 px      3.289810
0703 px      3.636520
0704 px      3.621910
0705 px      3.304410
0706 px      2.784350
0707 px      2.972310
0708 px      2.957700
0709 px      2.798950
0710 pz    111.668560
0711 pz    109.128560
0712 px      4.429000
0713 px      2.763270
0714 px      4.666740
0715 px      3.396740
0716 px      3.079240
0717 px      1.477630
0718 px      4.017630
0719 px      4.190990
0720 px      1.289670
0721 px      1.463030
0722 px      1.304280
0723 px      2.430130
0724 px      3.065130
0725 px      0.625460
0726 px      0.813420
0727 px      0.798820
0728 px      0.640070
0729 px      4.681840
0730 px      4.855200
0731 px      0.337680
0732 px      0.525640
```

```
0733 px      0.511040
0734 px      0.352290
0735 px      5.186790
0736 px      5.013440
0737 px      1.795130
0738 px      2.112630
0739 px      3.382630
0740 px      3.700130
0741 px      0.604380
0742 px      4.920090
0743 px      2.747630
0744 px      0.366890
0745 px      5.028070
0746 pz     85.628480
0747 pz     65.643760
0748 pz     65.389760
0749 px      4.847590
0750 px      5.035550
0751 px      5.020950
0752 px      4.862190
0753 px      4.183380
0754 px      4.371340
0755 px      4.356730
0756 px      4.197990
0757 pz     71.028560
0758 px      0.828040
0759 px      1.016000
0760 px      1.001400
0761 px      0.842640
0762 px      5.143500
0763 px      4.162300
0764 pz     65.948560
0765 pz     93.888560
0766 pz     68.488560
0767 px      0.619000
0768 px      0.381510
0769 pz     65.231010
0770 pz    121.747280
0771 pz    106.842560
0772 px      4.302000
0773 px      3.763520
0774 pz    101.668580
0775 pz    106.428540
0776 px      2.842770
0777 px      3.001520
0778 pz    104.048560
0779 pz    119.923560
0780 pz    119.783860
0781 pz    109.623860
0782 pz    109.484160
0783 pz    109.344460
0784 pz     99.184460
0785 pz     99.044760
0786 pz     99.463860
0787 pz     99.324160
0788 pz     83.804760
0789 pz     99.603560
0790 pz     89.443560
0791 pz     84.363560
0792 pz     84.084160
0793 pz     83.646010
0794 pz     83.564730
0795 pz     76.960730
0796 px      2.774950
0797 pz     86.109810
0798 pz     86.028530
0799 pz     79.424530
0800 px      3.092450
0801 px      4.838700
0802 px      0.393700
0803 px      2.457450
0804 px      0.711200
0805 px      4.044950
0806 px      1.504950
0807 pz    120.898920
0808 px      4.389120
```

```
0809 pz    108.219240
0810 pz    107.901740
0811 px      5.219700
0812 px      4.511040
0813 px      3.876680
0814 px      3.717930
0815 px      2.765430
0816 px      3.082930
0817 px      0.225420
0818 pz     62.542420
0819 px      5.150100
0820 px      4.854190
0821 px      5.027550
0822 px      4.868800
0823 px      4.189980
0824 px      4.377940
0825 px      4.363340
0826 px      4.204590
0827 px      3.880740
0828 px      4.039490
0829 pz    101.427280
0830 pz     86.522560
0831 px      3.563240
0832 px      2.928240
0833 px      2.451990
0834 px      1.816990
0835 px      1.310890
0836 px      1.484250
0837 px      1.325500
0838 px      0.646680
0839 px      0.834640
0840 px      0.820040
0841 px      0.661290
0842 px      0.244860
0843 px      3.880100
0844 px      1.816350
0845 px      3.038090
0846 px      1.864610
0847 px      3.562600
0848 px      0.279400
0849 px      5.270500
0850 py      3.699510
0851 py      4.237990
0852 py      2.879090
0853 py      1.609090
0854 py      0.974090
0855 py      1.022350
0856 py      2.195830
0857 px      4.300980
0858 px      3.762500
0859 px      4.022730
0860 px      1.831340
0861 px      1.845940
0862 pz    103.187500
0863 px      0.158750
0864 px      5.365750
0865 py      5.270500
0866 pz      0.066040
0867 py      0.165100
0868 px      0.427990
0869 px      0.615950
0870 pz      0.205740
0871 pz     20.525740
0872 pz     20.665440
0873 py      5.257800
0874 py      0.177800
0875 px      0.442590
0876 px      0.601350
0877 px      0.803910
0878 px      0.630550
0879 px      0.789310
0880 px      1.280160
0881 px      1.626870
0882 px      1.294770
0883 px      1.612270
0884 px      1.944370
```

```
0885 px      2.132330
0886 px      1.958970
0887 px      2.117730
0888 px      2.320290
0889 px      2.146940
0890 px      2.305680
0891 px      2.411730
0892 px      3.046730
0893 py      5.245100
0894 pz     20.386040
0895 pz     35.626040
0896 px      3.204210
0897 px      3.392170
0898 px      3.218820
0899 px      3.377570
0900 px      3.580130
0901 px      3.406780
0902 px      3.565530
0903 px      3.897630
0904 px      4.244340
0905 px      3.912230
0906 px      4.229730
0907 px      4.720590
0908 px      4.908550
0909 px      4.735200
0910 px      4.893940
0911 px      5.096510
0912 px      4.923160
0913 px      5.081900
0914 pz     35.905440
0915 pz     35.986720
0916 pz     56.225440
0917 py      5.200650
0918 py      0.209550
0919 pz     56.306720
0920 pz     76.291440
0921 pz     76.545440
0922 pz     76.626720
0923 pz     96.611440
0924 pz     96.865440
0925 pz    101.945440
0926 px      0.349250
0927 pz     30.546040
0928 px      1.301240
0929 px      2.317750
0930 px      3.125470
0931 px      4.220720
0932 px      5.093970
0933 px      5.175250
0934 px      2.444120
0935 px      3.079120
0936 pz    120.967500
0937 pz     18.732500
0938 pz    121.853960
0939 pz    121.714260
0940 pz    101.394260
0941 pz    101.254560
0942 px      2.477770
0943 px      3.112770
0944 pz    101.533960
0945 pz     86.293960
0946 pz     86.014560
0947 pz     85.933280
0948 pz     65.694560
0949 pz     65.613280
0950 pz     45.628560
0951 pz     45.374560
0952 pz     45.293280
0953 pz     25.308560
0954 pz     25.054560
0955 pz     19.974560
0956 pz     91.373960
0957 px      4.223260
0958 px      3.206750
0959 px      2.399030
0960 px      1.303780
```

```
0961 px      0.430530
0962 px      2.445380
0963 px      3.080390
0964 pz      0.952500
0965 pz     30.480000
0966 pz     91.440000
0967 pz      0.165100
0968 pz     60.642500
0969 pz     60.960000
0970 py      5.016500
0971 py      0.266700
0972 px      0.266700
0973 px      5.016500
0974 py      2.641600
0975 pz    121.754900
0976 pz     61.277500
0977 px      5.257800
0978 px      0.508000
0979 pz     76.200000
0980 pz     45.720000
C   Lattice Cell Bounds
0981 px      0.000000
0982 px      5.524500
0983 py      0.000000
0984 py      5.524500
0985 pz    121.920000
0986 pz   -121.920000
0987 pz      0.000000
C   Total Lattice Bounds
0988 px    436.435500
0989 py    436.435500

C CONTROL CARDS
C Material Cards
m001  24000.50c    5.8425300E-03  28000.50c    2.3590800E-03
      26000.50c    2.1025900E-02   6012.50c    9.2843600E-05
      42000.50c    4.0681700E-05  25055.50c    5.2021900E-04
      29000.50c    8.4818300E-05  14000.50c    3.3538400E-04
m002  24000.50c    1.4597500E-02  28000.50c    5.8941700E-03
      26000.50c    5.2533400E-02   6012.50c    2.3184500E-04
      42000.50c    1.0170300E-04  25055.50c    1.2997600E-03
      29000.50c    2.1206900E-04  14000.50c    8.3815600E-04
m003  24000.50c    1.6467000E-02  28000.50c    6.6496700E-03
      26000.50c    5.9259400E-02   6012.50c    2.5954000E-04
      42000.50c    1.1434000E-04  25055.50c    1.4666200E-03
      29000.50c    2.3863500E-04  14000.50c    9.4599300E-04
m004  24000.50c    1.3266600E-02  28000.50c    1.8444800E-03
      26000.50c    5.6962600E-02  13027.50c    8.8402500E-06
       6012.50c    2.9788100E-04  42000.50c    4.9723500E-05
      25055.50c    4.5149200E-04  29000.50c    6.3810500E-05
      14000.50c    3.8216800E-04
m005  24000.50c    7.7778200E-03  28000.50c    3.4655100E-03
      26000.50c    2.7353600E-02   6012.50c    1.0922300E-04
      42000.50c    2.9834000E-05  25055.50c    5.4485800E-04
      29000.50c    4.1289000E-05  14000.50c    3.3970300E-04
m006  24000.50c    7.3508600E-03  28000.50c    3.2748600E-03
      26000.50c    2.5848400E-02   6012.50c    9.6054200E-05
      42000.50c    2.8119800E-05  25055.50c    5.1291300E-04
      29000.50c    3.9428500E-05  14000.50c    3.2302000E-04
m007  24000.50c    1.6022400E-02  28000.50c    6.5264800E-03
      26000.50c    5.6850500E-02   6012.50c    2.0572000E-04
      42000.50c    1.5125000E-04  25055.50c    1.2756900E-03
      29000.50c    5.8679000E-05  14000.50c    9.8053600E-04
       7014.50c    2.3414200E-04  27059.50c    4.8788000E-05
m008  24000.50c    1.5539800E-02  28000.50c    6.3292300E-03
      26000.50c    5.5137600E-02   6012.50c    1.9646100E-04
      42000.50c    1.4627800E-04  25055.50c    1.2365600E-03
      29000.50c    5.6677600E-05  14000.50c    9.5071400E-04
       7014.50c    2.2166900E-04  27059.50c    4.6362200E-05
m009  24000.50c    1.3509200E-02  28000.50c    5.5027000E-03
      26000.50c    4.7931800E-02   6012.50c    1.7426700E-04
      42000.50c    1.2752900E-04  25055.50c    1.0755200E-03
      29000.50c    4.9470900E-05  14000.50c    8.2774500E-04
       7014.50c    1.9963000E-04  27059.50c    4.1481500E-05
m010  92235.50c    4.2924900E-02  92238.50c    2.4880000E-03
      92234.50c    4.2101800E-04  92236.50c    2.0183000E-04
```

```
      24000.50c    7.0676800E-09  28000.50c    6.2594300E-09
      26000.50c    1.3160600E-08   6012.50c    3.0596200E-08
      42000.50c    3.8304300E-09  25055.50c    6.6892000E-09
      29000.50c    5.7830700E-09  14000.50c    1.3084500E-08
       7014.50c    2.6236800E-08  27059.50c    6.2357200E-09
m011  24000.50c    1.5464200E-02  28000.50c    6.5440800E-03
      26000.50c    5.4772700E-02   6012.50c    1.8701800E-04
      42000.50c    2.0135500E-04  25055.50c    1.1603900E-03
      29000.50c    5.3023200E-05  14000.50c    9.7253900E-04
       7014.50c    2.1489800E-04  27059.50c    4.4976400E-05
m012  24000.50c    1.4990200E-02  28000.50c    6.3440100E-03
      26000.50c    5.3100500E-02   6012.50c    1.6538500E-04
      42000.50c    1.9410900E-04  25055.50c    1.1254100E-03
      29000.50c    5.0797200E-05  14000.50c    9.3713200E-04
       7014.50c    1.9500300E-04  27059.50c    4.2133200E-05
m013  24000.50c    1.3038500E-02  28000.50c    5.5174100E-03
      26000.50c    4.6179100E-02   6012.50c    1.5963200E-04
      42000.50c    1.7012100E-04  25055.50c    9.7880300E-04
      29000.50c    4.5258800E-05  14000.50c    8.2034000E-04
       7014.50c    1.8251700E-04  27059.50c    3.7956500E-05
m014  92235.50c    4.2703700E-02  92238.50c    2.4752200E-03
      92234.50c    4.1883500E-04  92236.50c    2.0077300E-04
m015  24000.50c    1.5551700E-02  28000.50c    6.4751200E-03
      26000.50c    5.5127700E-02   6012.50c    2.0275800E-04
      42000.50c    1.7616400E-04  25055.50c    1.2004200E-03
      29000.50c    5.5952800E-05  14000.50c    9.6941400E-04
       7014.50c    2.2776800E-04  27059.50c    4.7522000E-05
m016  24000.50c    1.5049400E-02  28000.50c    6.2651600E-03
      26000.50c    5.3347700E-02   6012.50c    1.9616500E-04
      42000.50c    1.7050600E-04  25055.50c    1.1616300E-03
      29000.50c    5.4027500E-05  14000.50c    9.3717400E-04
       7014.50c    2.1627700E-04  27059.50c    4.5691300E-05
m017  24000.50c    1.3084600E-02  28000.50c    5.4480700E-03
      26000.50c    4.6382500E-02   6012.50c    1.7094100E-04
      42000.50c    1.4826400E-04  25055.50c    1.0101500E-03
      29000.50c    4.7207900E-05  14000.50c    8.1622500E-04
       7014.50c    1.9164500E-04  27059.50c    4.0193700E-05
m018  92235.50c    4.1886800E-02  92238.50c    2.3856100E-03
      92234.50c    4.1042600E-04  92236.50c    1.9680200E-04
      24000.50c    3.5338400E-09  28000.50c    3.1297100E-09
      26000.50c    6.5803200E-09   6012.50c    1.5298100E-08
      42000.50c    1.9152100E-09  25055.50c    3.3446000E-09
      29000.50c    2.8915300E-09  14000.50c    6.5422400E-09
       7014.50c    1.3118400E-08  27059.50c    3.1178600E-09
m019  24000.50c    1.5072100E-02  28000.50c    6.5883600E-03
      26000.50c    5.3316200E-02   6012.50c    1.8856500E-04
      42000.50c    2.4419300E-04  25055.50c    1.0785200E-03
      29000.50c    5.0970700E-05  14000.50c    9.7374900E-04
       7014.50c    2.0864200E-04  27059.50c    4.3802900E-05
m020  24000.50c    1.4583200E-02  28000.50c    6.3740600E-03
      26000.50c    5.1586800E-02   6012.50c    1.7931800E-04
      42000.50c    2.3571800E-04  25055.50c    1.0413600E-03
      29000.50c    4.8721800E-05  14000.50c    9.3939900E-04
       7014.50c    2.0182100E-04  27059.50c    4.1114600E-05
m021  24000.50c    1.2681100E-02  28000.50c    5.5431300E-03
      26000.50c    4.4857900E-02   6012.50c    1.5963200E-04
      42000.50c    2.0551100E-04  25055.50c    9.0740300E-04
      29000.50c    4.2995800E-05  14000.50c    8.1920200E-04
       7014.50c    1.7567200E-04  27059.50c    3.7143200E-05
m022  92235.50c    4.1882400E-02  92238.50c    2.3853400E-03
      92234.50c    4.1038700E-04  92236.50c    1.9658500E-04
m023   6012.50c    4.1239100E-02   1001.50c    8.2000900E-02
mt023  poly.01t
m024   6012.50c    4.2044300E-02   1001.50c    8.1174400E-02
mt024  poly.01t
m025   6012.50c    4.0210300E-02   1001.50c    7.9893400E-02
mt025  poly.01t
m026  75185.50c    2.6975300E-02  75187.50c    4.4667600E-02
m027   6012.50c    4.0592900E-02   1001.50c    8.0651800E-02
mt027  poly.01t
m028   6012.50c    3.9742400E-02   1001.50c    7.9023200E-02
mt028  poly.01t
m029   6012.50c    3.9624600E-02   1001.50c    7.8727600E-02
mt029  poly.01t
m030  41093.50c    5.4088000E-02  40000.60c    5.5645300E-04
m031  26000.50c    2.5958000E-02   6012.50c    1.1871300E-03
```

```
m032  24000.50c    1.6916700E-02  28000.50c    7.6355200E-03
      26000.50c    6.0787900E-02   6012.50c    2.8253700E-04
      25055.50c    1.6583400E-03  14000.50c    9.4903400E-04
m033  24000.50c    1.6929000E-02  28000.50c    7.6410900E-03
      26000.50c    6.0832200E-02   6012.50c    2.8261000E-04
      25055.50c    1.6596300E-03  14000.50c    9.4972600E-04
m034   8016.50c    7.7824800E-03   6012.50c    2.8578800E-02
       5010.50c    5.1290500E-04   5011.50c    2.0808200E-03
       1001.50c    6.4554300E-02
mt034  poly.01t
m035  24000.50c    1.5888100E-02  28000.50c    8.4026500E-03
      26000.50c    5.5922200E-02   6012.50c    7.3430800E-05
      42000.50c    4.5965100E-06  25055.50c    1.1773000E-03
      29000.50c    2.7735600E-05  14000.50c    3.7154700E-04
m036  75185.50c    2.4230800E-02  75187.50c    4.0123000E-02
m037  75185.50c    2.4230800E-02  75187.50c    4.0123000E-02
m038  24000.50c    1.6623200E-02  28000.50c    7.1691300E-03
      26000.50c    5.5871200E-02   6012.50c    2.8556400E-04
      25055.50c    1.6589100E-03  14000.50c    1.6224800E-03
m039   6012.50c    3.9690200E-02   1001.50c    7.8857900E-02
mt039  poly.01t
m040  41093.50c    5.1785300E-02
m041  41093.50c    5.2792700E-02
m042  41093.50c    5.3921300E-02
m043  92235.50c    4.2023100E-02  92238.50c    2.4076300E-03
      92234.50c    4.1202000E-04  92236.50c    1.9741000E-04
       6012.50c    1.3462300E-04   1001.50c    3.7919500E-05
      17000.50c    6.6339700E-05   9019.50c    2.0117000E-04
m044  24000.50c    1.5577900E-02  28000.50c    6.5958300E-03
      26000.50c    5.5181800E-02   6012.50c    1.9667500E-04
      42000.50c    2.0104000E-04  25055.50c    1.1711600E-03
      29000.50c    5.5952800E-05  14000.50c    9.8415400E-04
       7014.50c    2.2081300E-04  27059.50c    4.4216200E-05
m045  24000.50c    1.5072500E-02  28000.50c    6.3817100E-03
      26000.50c    5.3391300E-02   6012.50c    1.8679000E-04
      42000.50c    1.9456100E-04  25055.50c    1.1320200E-03
      29000.50c    5.3664600E-05  14000.50c    9.5218000E-04
       7014.50c    2.1143200E-04  27059.50c    4.2637400E-05
m046  24000.50c    1.3106500E-02  28000.50c    5.5493900E-03
      26000.50c    4.6427400E-02   6012.50c    1.6672700E-04
      42000.50c    1.6920500E-04  25055.50c    9.8534700E-04
      29000.50c    4.7270300E-05  14000.50c    8.2792500E-04
       7014.50c    1.8593900E-04  27059.50c    3.7414300E-05
m047  92235.50c    4.2887200E-02  92238.50c    2.4473500E-03
      92234.50c    4.2029000E-04  92236.50c    2.0146900E-04
      24000.50c    4.7117800E-09  28000.50c    4.1729500E-09
      26000.50c    8.7737500E-09   6012.50c    2.0397500E-08
      42000.50c    2.5536200E-09  25055.50c    4.4594600E-09
      29000.50c    3.8553800E-09  14000.50c    8.7229900E-09
       7014.50c    1.7491200E-08  27059.50c    4.1571400E-09
m048   8016.50c    6.6472400E-02   6012.50c    1.2599500E-04
       1001.50c    3.6461000E-05  17000.50c    6.3209300E-05
       9019.50c    1.8724300E-04   4009.50c    6.6466600E-02
mt048  beo.01t
m049   8016.50c    6.6457100E-02   6012.50c    1.2605600E-04
       1001.50c    3.8891800E-05  17000.50c    6.3299100E-05
       9019.50c    1.8724300E-04   4009.50c    6.6439500E-02
mt049  beo.01t
m050   8016.50c    6.9332000E-02   6012.50c    3.1514100E-05
       1001.50c    9.1152600E-06  17000.50c    1.5807500E-05
       9019.50c    4.6810700E-05   4009.50c    6.9331300E-02
mt050  beo.01t
m051   6012.50c    3.0354400E-02   5010.50c    7.4023500E-02
       5011.50c    7.5739200E-03
m052   6012.50c    3.0180100E-02   5010.50c    7.3549900E-02
       5011.50c    7.5238500E-03
m053  24000.50c    1.6006700E-02  28000.50c    8.2020000E-03
      26000.50c    5.5594000E-02  13027.50c    7.9592400E-05
       6012.50c    8.8920200E-05  42000.50c    9.3366600E-06
      25055.50c    1.1946500E-03  29000.50c    8.5300200E-05
      14000.50c    9.9891800E-04  27059.50c    2.3968500E-05
m054  24000.50c    4.2656900E-03  28000.50c    2.1857900E-03
      26000.50c    1.4815400E-02  13027.50c    2.1111100E-05
       6012.50c    2.3559100E-05  42000.50c    2.4897700E-06
      25055.50c    3.1833900E-04  29000.50c    2.2727400E-05
      14000.50c    2.6626900E-04  27059.50c    6.3604300E-06
```

```
m055  24000.50c    1.3754500E-02  28000.50c    7.0479800E-03
      26000.50c    4.7771400E-02  13027.50c    6.8451600E-05
       6012.50c    7.6440500E-05  42000.50c    8.0675600E-06
      25055.50c    1.0265300E-03  29000.50c    7.3417100E-05
      14000.50c    8.5848800E-04  27059.50c    2.0560800E-05
m056  24000.50c    1.2874600E-02  28000.50c    6.5972100E-03
      26000.50c    4.4715600E-02  13027.50c    6.4031600E-05
       6012.50c    7.1868200E-05  42000.50c    7.5891000E-06
      25055.50c    9.6089500E-04  29000.50c    6.8746900E-05
      14000.50c    8.0364100E-04  27059.50c    1.9296200E-05
m057  24000.50c    1.9789600E-09  28000.50c    8.7632500E-10
      26000.50c    5.5275000E-09  13027.50c    1.9068300E-09
       6012.50c    4.2835000E-09  42000.50c    5.3626300E-10
      25055.50c    9.3649300E-10  29000.50c    8.0963500E-10
      14000.50c    1.8318400E-09  27059.50c    8.7300700E-10
m058   8016.50c    1.0106400E-04   6012.50c    1.9777400E-02
       5010.50c    7.5355700E-02   5011.50c    6.3822600E-03
       7014.50c    1.0599700E-03
m059   6012.50c    4.2058500E-02   1001.50c    8.3563500E-02
mt059  poly.01t
m060  24000.50c    1.2662800E-02  28000.50c    5.7179300E-03
      26000.50c    4.5479400E-02   6012.50c    2.0203200E-04
      25055.50c    1.2412200E-03  14000.50c    7.0780800E-04
m061  24000.50c    1.2662800E-02  28000.50c    5.7178300E-03
      26000.50c    4.5480900E-02   6012.50c    2.0227000E-04
      25055.50c    1.2411300E-03  14000.50c    7.0816800E-04
m062  24000.50c    1.6787500E-02  28000.50c    8.6027900E-03
      26000.50c    5.8307700E-02  13027.50c    8.3423000E-05
       6012.50c    9.7525300E-05  42000.50c    9.5760600E-06
      25055.50c    1.2521300E-03  29000.50c    8.9999000E-05
      14000.50c    1.0459400E-03  27059.50c    2.4163400E-05
m063  24000.50c    6.0548800E-03  28000.50c    3.1028000E-03
      26000.50c    2.1030000E-02  13027.50c    3.0236600E-05
       6012.50c    3.4879700E-05  42000.50c    3.4473800E-06
      25055.50c    4.5165400E-04  29000.50c    3.2385200E-05
      14000.50c    3.7735600E-04  27059.50c    8.7300000E-06
m064  24000.50c    1.4426100E-02  28000.50c    7.3924700E-03
      26000.50c    5.0104900E-02  13027.50c    7.2153800E-05
       6012.50c    8.3426800E-05  42000.50c    8.2063400E-06
      25055.50c    1.0758700E-03  29000.50c    7.7266700E-05
      14000.50c    8.9907400E-04  27059.50c    2.0646500E-05
m065  24000.50c    1.3726200E-02  28000.50c    7.0340200E-03
      26000.50c    4.7674200E-02  13027.50c    6.8883400E-05
       6012.50c    8.0163100E-05  42000.50c    7.8853100E-06
      25055.50c    1.0238900E-03  29000.50c    7.3673800E-05
      14000.50c    8.5549200E-04  27059.50c    1.9838800E-05
m066   6012.50c    4.0865700E-02   1001.50c    8.1193600E-02
mt066  poly.01t
m067   8016.50c    6.9443000E-02   6012.50c    2.6261700E-05
       1001.50c    7.8391200E-06  17000.50c    1.3181600E-05
       9019.50c    3.9008900E-05   4009.50c    6.9457000E-02
mt067  beo.01t
m068   8016.50c    6.9412400E-02   6012.50c    2.5211300E-05
       1001.50c    7.2922100E-06  17000.50c    1.2645000E-05
       9019.50c    3.7448500E-05   4009.50c    6.9443400E-02
mt068  beo.01t
m069  24000.50c    1.5771300E-02  28000.50c    8.3408900E-03
      26000.50c    5.5509800E-02   6012.50c    7.3349300E-05
      42000.50c    4.0857800E-06  25055.50c    1.1683600E-03
      29000.50c    2.7743300E-05  14000.50c    3.6636600E-04
m070   6012.50c    4.0498900E-02   1001.50c    8.0464700E-02
mt070  poly.01t
m071   6012.50c    4.0452600E-02   1001.50c    8.0372900E-02
mt071  poly.01t
m072  24000.50c    1.6799000E-02  28000.50c    7.4862700E-03
      26000.50c    5.9071500E-02   6012.50c    2.2182200E-04
      42000.50c    6.4877800E-05  25055.50c    1.1706100E-03
      29000.50c    9.0721800E-05  14000.50c    7.3682000E-04
m073  24000.50c    1.7205800E-02  28000.50c    7.6675800E-03
      26000.50c    6.0502500E-02   6012.50c    2.2738100E-04
      42000.50c    6.6480800E-05  25055.50c    1.1989500E-03
      29000.50c    9.3252300E-05  14000.50c    7.5456400E-04
m074  24000.50c    1.6569300E-02  28000.50c    8.4913200E-03
      26000.50c    5.7855000E-02  13027.50c    8.1938400E-05
       6012.50c    1.4059600E-03  42000.50c    1.0255300E-05
      25055.50c    1.2385200E-03  29000.50c    8.9321400E-05
```

```
      14000.50c    1.0330800E-03  27059.50c    2.6339700E-05
m075  24000.50c    7.0152800E-03  28000.50c    3.5951400E-03
      26000.50c    2.4495000E-02  13027.50c    3.4731700E-05
       6012.50c    5.9469100E-04  42000.50c    4.3401300E-06
      25055.50c    5.2436800E-04  29000.50c    3.7826400E-05
      14000.50c    4.3743800E-04  27059.50c    1.1177900E-05
m076  24000.50c    1.1585300E-02  28000.50c    5.9371400E-03
      26000.50c    4.0452100E-02  13027.50c    5.7353900E-05
       6012.50c    9.8235300E-04  42000.50c    7.1696900E-06
      25055.50c    8.6596400E-04  29000.50c    6.2470100E-05
      14000.50c    7.2242300E-04  27059.50c    1.8459100E-05
m077  26000.50c    6.8566600E-06  11023.50c    3.3655000E-06
       8016.50c    2.5793200E-04   6012.50c    2.4893200E-02
      25055.50c    7.3570700E-08   5010.50c    9.0341000E-02
       5011.50c    9.1368300E-03  29000.50c    8.2603600E-09
      22000.50c    1.0772200E-06   7014.50c    3.5250700E-04
      17000.50c    1.6619600E-06  27059.50c    3.2955600E-08
       9019.50c    3.1013900E-06
m078  24000.50c    1.5947900E-02  28000.50c    2.2867600E-03
      26000.50c    6.8318600E-02  13027.50c    3.5123500E-05
       6012.50c    3.6794400E-04  42000.50c    5.2682200E-05
      25055.50c    5.4625400E-04  29000.50c    8.9430700E-05
      14000.50c    4.6114500E-04
m079  24000.50c    9.2376200E-03  28000.50c    4.1161700E-03
      26000.50c    3.2485000E-02   6012.50c    1.3150300E-04
      42000.50c    3.4572700E-05  25055.50c    6.4687900E-04
      29000.50c    4.9711300E-05  14000.50c    4.0485200E-04
m080  24000.50c    7.9280900E-03  28000.50c    3.5319100E-03
      26000.50c    2.7872200E-02   6012.50c    1.1303400E-04
      42000.50c    3.0731300E-05  25055.50c    5.5332300E-04
      29000.50c    4.2729500E-05  14000.50c    3.4729300E-04
m081  24000.50c    5.8590000E-03  28000.50c    2.6101700E-03
      26000.50c    2.0598400E-02   6012.50c    8.3273800E-05
      42000.50c    2.2667100E-05  25055.50c    4.0894600E-04
      29000.50c    3.1598800E-05  14000.50c    2.5656900E-04
m082  75185.50c    2.4270500E-02  75187.50c    4.0188600E-02
m083  26000.50c    2.5958000E-02   6012.50c    1.1871300E-03
m084   8016.50c    7.7549200E-03   6012.50c    2.8477400E-02
       5010.50c    5.1351600E-04   5011.50c    2.0712200E-03
       1001.50c    6.4323300E-02
mt084  poly.01t
m085   6012.50c    3.9742400E-02   1001.50c    7.9031300E-02
mt085  poly.01t
m086  24000.50c    1.6021800E-02  28000.50c    8.2098200E-03
      26000.50c    5.5647000E-02  13027.50c    8.1720500E-05
       6012.50c    9.1788600E-05  42000.50c    9.0972500E-06
      25055.50c    1.1963200E-03  29000.50c    8.5661700E-05
      14000.50c    1.0009600E-03  27059.50c    2.3578800E-05
m087  24000.50c    4.2696500E-03  28000.50c    2.1878600E-03
      26000.50c    1.4829600E-02  13027.50c    2.1792100E-05
       6012.50c    2.4476900E-05  42000.50c    2.4131700E-06
      25055.50c    3.1880700E-04  29000.50c    2.2785300E-05
      14000.50c    2.6666200E-04  27059.50c    6.2980700E-06
m088  24000.50c    1.3767100E-02  28000.50c    7.0545100E-03
      26000.50c    4.7816600E-02  13027.50c    7.0295500E-05
       6012.50c    7.8658000E-05  42000.50c    7.8331800E-06
      25055.50c    1.0279000E-03  29000.50c    7.3548400E-05
      14000.50c    8.6006700E-04  27059.50c    2.0281700E-05
m089  24000.50c    1.2886700E-02  28000.50c    6.6033600E-03
      26000.50c    4.4758200E-02  13027.50c    6.5775000E-05
       6012.50c    7.3878500E-05  42000.50c    7.3957500E-06
      25055.50c    9.6221600E-04  29000.50c    6.8922400E-05
      14000.50c    8.0508500E-04  27059.50c    1.9070300E-05
m090  24000.50c    2.6534600E-09  28000.50c    1.1750000E-09
      26000.50c    6.1762100E-09  13027.50c    2.5567300E-09
       6012.50c    5.7434500E-09  42000.50c    7.1903800E-10
      25055.50c    1.2556800E-09  29000.50c    1.0855800E-09
      14000.50c    2.4561900E-09  27059.50c    1.1705500E-09
m091  24000.50c    1.3990000E-02  28000.50c    5.7337900E-03
      26000.50c    5.2043300E-02   6012.50c    2.7080100E-04
      42000.50c    1.0603600E-04  25055.50c    1.1710100E-03
      29000.50c    9.6054000E-05  14000.50c    5.3384700E-04
m092  24000.50c    1.3095000E-02  28000.50c    5.3670700E-03
      26000.50c    4.8714100E-02   6012.50c    2.5377300E-04
      42000.50c    9.9278800E-05  25055.50c    1.0961600E-03
      29000.50c    8.9943300E-05  14000.50c    4.9983600E-04
```

```
m093  24000.50c    1.5834100E-02  28000.50c    6.6480400E-03
      26000.50c    5.6172200E-02   6012.50c    2.2566700E-04
      42000.50c    1.2709800E-04  25055.50c    1.1162500E-03
      29000.50c    6.9312600E-05  14000.50c    5.3078600E-04
m094  24000.50c    1.6464300E-02  28000.50c    6.9132800E-03
      26000.50c    5.8423900E-02   6012.50c    2.2163600E-04
      42000.50c    1.3378200E-04  25055.50c    1.1592200E-03
      29000.50c    7.2275400E-05  14000.50c    5.5177300E-04
m095  24000.50c    1.6464000E-02  28000.50c    6.9130900E-03
      26000.50c    5.8422800E-02   6012.50c    2.2148700E-04
      42000.50c    1.3371000E-04  25055.50c    1.1592900E-03
      29000.50c    7.2330600E-05  14000.50c    5.5171800E-04
m096  24000.50c    1.6505900E-02  28000.50c    6.8065000E-03
      26000.50c    5.8246300E-02   6012.50c    1.8357700E-04
      42000.50c    1.9918200E-04  25055.50c    1.2763000E-03
      29000.50c    1.5036000E-04  14000.50c    4.4487200E-04
m097   6012.50c    4.0057100E-02   1001.50c    7.9587100E-02
mt097  poly.01t
m098  26000.50c    7.6811800E-02   6012.50c    5.7604100E-04
      25055.50c    4.2497600E-04
m099  26000.50c    4.4577800E-02   6012.50c    3.3429100E-04
      25055.50c    2.4664200E-04
m100  13027.50c    9.8149300E-08  11023.50c    2.7837900E-06
       1001.50c    3.5054700E-02   3006.50c    2.5836000E-03
       3007.50c    3.2519600E-02  12000.50c    5.4478900E-08
      20000.50c    1.6848700E-06  19000.50c    3.6124200E-07
m101   8016.50c    8.1012400E-03   6012.50c    2.9749100E-02
       5010.50c    5.3645500E-04   5011.50c    2.1637200E-03
       1001.50c    6.7195900E-02
mt101  poly.01t
m102  26000.50c    8.3040600E-02   6012.50c    7.0929600E-04
      25055.50c    5.8194300E-04  14000.50c    4.0005500E-05
m103  26000.50c    8.2850500E-02   6012.50c    7.0753400E-04
      25055.50c    5.8062200E-04  14000.50c    3.9907700E-05
kcode  20000  0.950000    40   440
ksrc   204.0969  201.6150   10.3911  203.1660  201.6150  -10.3911
       204.0687  207.1395   10.3911  201.7598  207.1395  -10.3911
       204.0969  212.6640   10.3911  203.1660  212.6640  -10.3911
       209.6275  196.0905   10.3911  204.7100  196.0905  -10.3911
       207.0527  201.6150   10.3911  204.7443  201.6150  -15.7505
       209.6275  207.1395   10.3911  204.7100  207.1395  -10.3911
       207.0527  212.6640   10.3911  204.7443  212.6640  -15.7505
       209.4090  218.1733   10.3657  204.9285  218.1733  -10.3657
       212.6932  193.0286   10.3911  212.6932  193.0286  -10.3911
       215.1172  196.0905   15.7505  210.2693  196.0905  -15.7505
       215.1520  201.6150   10.3911  210.2345  201.6150  -10.3911
       215.1172  207.1395   15.7505  210.2693  207.1395  -15.7505
       215.1520  212.6640   10.3911  210.2345  212.6640  -10.3911
       215.1172  218.1885   15.7505  210.2693  218.1885  -15.7505
       212.6932  221.2543   10.3911  212.6932  221.2543  -10.3911
       218.2177  192.9562   15.7505  218.2177  192.9562  -15.7505
       220.5987  196.0905   10.3911  215.9018  196.0905  -10.3911
       220.6417  201.6150   15.7505  215.7938  201.6150  -15.7505
       220.5337  207.1395   10.3911  220.5483  207.1395  -10.3911
       220.6417  212.6640   15.7505  215.7938  212.6640  -15.7505
       220.5987  218.1885   10.3911  215.9018  218.1885  -10.3911
       218.2177  221.3324   15.7505  218.2177  221.3324  -15.7505
       223.7422  193.0286   10.3911  223.7422  193.0286  -10.3911
       226.1662  196.0905   15.7505  221.3183  196.0905  -15.7505
       226.2010  201.6150   10.3911  221.2835  201.6150  -10.3911
       226.1666  207.1395   15.7505  221.3183  207.1395  -15.7505
       226.2010  212.6640   10.3911  221.2835  212.6640  -10.3911
       226.1662  218.1885   15.7505  221.3183  218.1885  -15.7505
       223.7422  221.2543   10.3911  223.7422  221.2543  -10.3911
       231.5070  196.0753   10.3657  227.0265  196.0753  -10.3657
       231.6696  201.6150   15.7505  229.3828  201.6150  -10.3911
       231.7255  207.1395   10.3911  226.8080  207.1395  -10.3911
       231.6907  212.6640   15.7505  229.3828  212.6640  -10.3911
       231.7255  218.1885   10.3911  226.8080  218.1885  -10.3911
       233.2695  201.6150   10.3911  232.3386  201.6150  -10.3911
       234.6757  207.1395   10.3911  232.3668  207.1395  -10.3911
       233.2695  212.6640   10.3911  232.3386  212.6640  -10.3911
totnu
phys:n  20.0  0.0
prdmp      J   40
```

HEU-MET-MIXED-012